BUSINESS WEEK



INESS EK EX

PUBLISHED BY THE MCGRAWHILL PUBLISHING COMPANY, INC . TWENTY CENTS





ACTION! CAMERA! Without the high-intensity carbon are . . . used for photographing motion pictures and projecting them in theaters . . . we would not have the highquality motion pictures of today.



MAN-MADE INFERNO.
Modern alloy steels are made
in electric furnaces. These
furnaces depend upon huge
carbon and graphite electrodes for intense heat. They
help make more... and better
... atrels.



CARBON, THE VERSATILE. In addition to its electrical uses, electric furnace graphite, a form of carbon, is used for making absorption towers, heat exchangers, and pumps for corrosive liquids; and for making metallurgical molds.



LIFE SAVER. Activated carbon is necessary for gas masks to give protection against industrial and war gases. It also aids in the recovery of millions of pounds of solvents used by industry each year.

When Black Means White!

OUT OF CARBON... blackest substance man knows ... comes the whitest, brightest light that man has achieved... that of the carbon arc lamp. With an intensity of light rivaling that of the sun, the useful carbon arc is necessary in giant searchlights for antiaircraft defense, battleships, and other vital uses... in motion picture projectors... in sun lamps that heal and lamps that increase the vitamin D content of milk... in accelerated testing equipment that points the way to longer life for fabrics, paints, plastics, and other materials you use.

Without carbon and its wonders, our electrical civilization could not have been born. For without brushes made from carbon, electricity for light and power could not be generated in vast amounts... today's automobiles would not run... today's airplanes would not leave the ground.

Without carbon, in the form of electrodes and anodes, much of the highest quality steel, many of the chemicals, and other useful substances vital to this nation could not be made. For years, NATIONAL CARBON COMPANY, INC., a Unit of UCC, has studied carbon and graphite... their properties and uses... and has made useful things from them. Much has been accomplished. Through further research in carbon, more answers for tomorrow's problems are being found.

Research and engineering developments in carbon made by National Carbon Company, Inc., have been tremendously facilitated by the electric-furnace experience and the knowledge of industrial gases and chemicals of other Units of Union Carbide and Carbon Corporation,

BUY UNITED STATES WAR BONDS AND STAMPS

UNION CARBIDE AND CARBON CORPORATION

30 East 42nd Street

New York, N. Y.

Principal Products and Units in the United States

ALLOYS AND METALS

Electro Metallurgical Company Haynes Stellite Company United States Vanadium Corporation CHEMICALS

Carbide and Carbon Chemicals Corporation ELECTRODES, CARBONS AND BATTERIES National Carbon Company, Inc. INDUSTRIAL GASES AND CARBIDE

The Linde Air Products Company The Oxweld Railroad Service Company The Prest-O-Lite Company, Inc. PLASTICS

Bakelite Corporation

Plastics Division of Carbide and Carbot
Chemicals Corporation

MAKE YOUR DOLLARS FIGHT IN WORLD-WIDE OFFENSIVES



Every bour, day and night, nine more planes roll off the production lines for world-wide offensive action

ALL-OUT attack wins wars, and all-out attack is what the Axis is in for . . . offensives far beyond anything Hitler or Tojo ever reckoned with . . . offensives backed by the irresistible power of a united America . . . offensives reaching back from world-wide battle fronts, through this Nation's great production lines to the first offensive line of all, the home front. What we do here at home will be decisive in speeding Victory.

All-out attack demands all-out War Bond purchases. Let us make our dollars fight as never before. Over \$18-billion was raised in the Second War Loan Drive. Many millions of individual investors bought these Bonds. But more investors are needed. It is the individual purchases of each one of us that count most, both in backing our fighting men and in combatting inflation. If you have already bought, buy more . . . join the Payroll Savings Plan . . . keep on buying Bonds, month in and month out.



FIGHT WITH YOUR DOLLARS AS OUR BOYS FIGHT WITH THEIR LIVES

BANKERS TRUST COMPANY

NEW YORK



Air, Coal, Oil and Grain

 America's incredible chemical industry — fighting with test tubes — is turning air, coal, oil and grain into deadly weapons of war.

It has already developed plastics for uses undreamed of even a year ago. It is producing materials for parachutes, smoke screens, airplanes and new high explosives. These are but a handful of the fighting products that today flow in unprecedented volume from the genius and dogged determination of American chemists.

How well this country is fighting — in this fantastic hour of synthetics — pays high tribute to the research and initiative found in the American business system.

Seventy-seven years of research and practical experience in engineering insurance enable Hartford Steam Boiler to do a unique, specialized job for many chemical plants. That job is to help keep boilers, turbines and generators safe for service... to help detect flaws and weaknesses in them and in reaction kettles and retorts before disastrous accidents can happen.

All the technical resources of Hartford Steam Boiler and all the skill of its hundreds of engineers and inspectors are concentrated on this task to help America's war

production by helping industry keep power equipment on the job.



Covers: Boilers · Pressure Vessels · Steam, Gas and Diesel Engines · Turbines · Electrical Equipment

THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY · Hartford Connecticut

BUSINESS WEE

WHERE TO FIND IT
Washington Bulletin
Figures of the vveck.
The Outlook
General News
War Business Checklist
Production
New Products
The War—and Business Abroad
Labor
Marketing
The Regional Market Outlook
Finance
The Securities Market
The Trading Post
The Trend

On by the to dev for all to ma rials,

factur

bilizat critics

urging as an arise a

try cz

tion, the V

coord

As of O'signifi

perier adjud an ec ogniz no de

tratio high

Ano

An

unde

make Kilgo

Cong

And,

head

super

islatio

trate

War

agen

EV

ecuti

Mob

tirely

OW

ster.

with

grou

but In

WIV

men

shou

New

it co

cred begi

WPI

THE PICTURES

Cover—International News; 5—Acme; 1 Harris & Ewing; 14—Press Assn.; 15—6a Acme, (right) Harris & Ewing; 17—Press An 18—Harris & Ewing; 19—(left) Acme, (cens Wide World, (right) Acme; 20—Acme; 22, —Wide World; 52, 68—International New 86—Office of War Information; 89—Acme, —Harris & Ewing; 100—International News

THE STAFF

Publisher, Willard Chevalier • Managet, Hontgomery • Editor, Ralph Smith • Managed Editor, Louis Engel • Assistant Managing Editor, Louis Engel • Assistant Managing Editor, Raymond A. Dodd (Illustration), Phylis W. Erweigen, John E. Chanman • Finance Line Line Raymond Research Line Research

Clark R. Pace • News Editors, Richard La Raymond A. Dodd (Illustration), Phyllis W. Foreign, John F. Chapman • Finance, John Cobbs • Production, W. W. Dodge • Law, J. Gerardi • Marketing, E. A. Grunwald (Wington) • Industry, Clarence Judd (Clevellad) War Regulations, Richard M. Machol • Inomics, Sanford S. Parker • Labor, M. S. Ph. Washington, Irvin D. Foos, Robert Colo Stuart Hamilton.

Editorial Assistants, Brownlee Haydon (Asia Foreign Editor), John Hoffman, C. Arthur La M. J. Montgomery, Margaret Timmerman, B I. White • Statistician, Alice McFall • Libra Ruth Wall.

District Managers — Atlanta, R. C. Maultis Boston, Nelson Bond • Chicago, Arthur wardine, R. N. Whittington • Cleveland, E. DeGraff, S. D. R. Smith • Detroit, C. Crandall • Los Angeles, R. N. Phelan • Y York, H. E. Choate, J. R. Hayes, J. H. Str son • Philadelphia, H. C. Sturm • San Franca J. W. Otterson • St. Louis, G. C. Sears.

(with which is combined The Annalist and the Magazine of Business). Published weekly in McGraw-Hill Publishing Company, Inc., Jam Publication office, 99-129 North Broadwar Albany, New York. EDITORIAL AND EXECUTIVE OFFICES, 330 W. 42ND ST., NEW YORK, N. Y. James H. McGraw, Jr., President Howard Ehrlich, Executive Vice-President; B. Rutham, Treasurer; J. A. Gerardi, Secretar Allow ten days for change of address. About a scriptions address: Director of Circulation, Baness Week, 330 W. 42nd Street, New York, N.

Subscription rates—United States, Mexico, as Central and South American countries \$5.00 year. Canada \$5.50 for a year. Entered as seem class matter December 4, 1936 at the Post Offs at Albany, N. Y., under the Act of March 1879. Return postage guaranteed. Printed a U. S. A. Copyright 1943 by the McGraw-H Publishing Company, Inc.

WASHINGTON BULLETIN WHAT THE WASHINGTON NEWS MEANS TO MANAGEMENT

Still an Umpire

Justice James F. Byrnes' new OWM is not, actually, an office of war mobilization. It might become one, but it probably won't.

On paper, OWM has been charged by the President with two jobs: (1) It is to develop a unified, consistent program for all phases of the civilian war effort, to make the basic allocations of materials, manpower, transportation, manufacturing capacity—the real "war mobilization" job which congressional critics of the war program have been urging for months; (2) it is to function as an umpire, settling conflicts as they arise among the war agencies and industry czars (food, rubber, oil, transportation, housing, power) spawned by the War Production Board's failure to coordinate its job.

As long as Byrnes is the moving spirit of OWM, the second duty will be the significant one. By temperament, experience, and inclination, Byrnes is an adjudicator, a compromiser rather than an economic planner. He himself recognizes this as well as anyone and has no desire to take over the broad administration of the war program, even on a high policy level.

(Assist hur La nan, D Libran

tanley

bertso

nd, E., C.

NEW NEW

Another Mobilizer?

Another man than Byrnes working under Byrnes' executive order might make himself a real war mobilizer. The Kigore-Truman-Pepper-Tolan group in Congress was quick to recognize this. And, now that they have been effectively headed off in their effort to set up a super-duper mobilization agency by legislation, they are planning to concentrate on the job of building the Office of War Mobilization into the sort of agency they have in mind.

They are pressing Byrnes to appoint WPB executive vice-chairman Charles E. Wilson, whom they admire, as executive secretary of the Office of War Mobilization. This would put an entirely different face on, as well as in, OWM. The Republican liberals—Brewster, Ball, Ferguson, Burton—go along with this move. The congressional group has had kind words from Byrnes, but its chances aren't good.

Incidentally, there would be some wry faces among Washington business men if its adoption of a business man should put the primarily political and New Dealish OWM in a position where it could claim any part of the public credit for the flood of armament now beginning to roll in overwhelming vol-

ume (7,000 planes, 175 merchant ships in May; probably 8,000 planes in June and 10,000 a month by the end of the year).

No Steel Released

Reports that WPB's Office of Civilian Requirements is going to get special steel allotments for refrigerators, vacuum sweepers, and other consumer durable goods during the third quarter are still based on wishful thinking. OCR will be lucky to get enough steel for such little items as pots, pans, and garbage cans (BW-May15'43,p14). However, there may be a fourth-quarter allotment for washing machines and irons (to take the pressure off laundries).

As evidence of how tiny a trickle of

steel is now flowing into civilian channels, WPB is cranking up a campaign to have consumers sell spare irons, sweepers, and other electric appliances back to dealers. WPB says there is enough mica and wire to repair the old stuff and make it serviceable.

Fathers or Sons?

The War Manpower Commission is getting increasingly jittery as the time approaches for the drafting of fathers. It's doing everything it can to stave off the evil moment.

WMC people have sold the Navy on lowering its physical standards and using more Negroes, thus increasing the number of available childless men. There's even some thought of lowering the draft

What Vinson Brings to His Job

Judge Fred M. Vinson, drafted from the Court of Appeals bench to succeed James F. Byrnes as Director of Economic Stabilization, is no stranger to business men. As chairman of the tax subcommittee of the House Ways & Means Committee, Vinson made his name in 1936 when he carried through Congress the undistributed profits tax—the brain child of the late Herman Oliphant, then the Treasury's general counsel. The former Kentucky congressman also sponsored the first bituminous coal act, later struck down by the Supreme Court on constitutional grounds.

• Profits Taxer-Although a New Dealer, Judge Vinson was not considered a rabid one. While his name is closely associated with the undistributed profits tax, his sponsorship of the legislation was forced upon him by the fact that he fell heir to chairmanship of the tax committee when Rep. Sam Hill of Washington was appointed to the Court of Customs and Patent Appeals. Vinson's tax law lasted only two years, but his efforts in putting it across for the Administration in the face of the strongest kind of opposition from business, and in saving it from ex-tinction in 1937 by inserting cushions against its impact on small firms, were sufficient to bring him directly under the eyes of the President.

Vinson was rewarded by Roosevelt in 1938 (when the controversial tax reform law was wiped off the statute



Veteran of Famous Tax Battle

books) by appointment as associate justice of the United States Court of Appeals for the District of Columbia. In 1942, he was designated by Chief Justice Harlan F. Stone as the chief judge of the United States Emergency Court of Appeals under the Price Control Act of 1942.

• Qualifications—Washington comment on the Vinson appointment is of the wait-and-see variety but, on the whole, favorable. With his knowledge of the coal industry, his legal slant on the issues involved in price control, and more importantly his training for a dominant rôle in taxation, Vinson may well be able to carry on from where Byrnes left off.



U. S. SHIPBUILDERS jumped construction from Two ocean-going freighters during the 15 years from 1922-191 to 664 in 1942 alone! Shell participates by developing special Industrial and Marine Lubricants to meet new needs

LIBERTY BRIDGE

Salute to the fantastics the 8,000,000-ton 1942 quota achieved. The amazing total of 16,000,000 to 24,000,000 tons to be launched in '43! Vital shipping to carry today's mechanized armies—730 ships, instead of the 480 used in the last war, necessary to ferry each million men overseas.

Ship News: A Shell Lubricant makes possible full-capacity operation of structural bending machines—saves hours each week ... Three large West Coast shipyards, after trying all available cable dressings, find a Shell Lubricant speeds work, lengthens life of vital cables and blocks ... Another shipyard finds that Shell Cutting Oil makes a cleaner cut, lessens finishing time ... Another, that a Shell Lubricant saves time, material, overhaul in presses and punch machines ...

On the high seas—U. S. Navy takes first call on Shell Turbo Oil to lubricate mighty turbines in battleships, aircraft carriers, cruisers, destroyers . . .

As war production sets new records, proper lubrication becomes even more vital. Yesterday's solution is seldom good enough for today.

Constant improvement in Shell Lubricants is a major responsibility of the "University of Petroleum," Shell's research laboratories. Shell engineers apply these improvements in the field.

Are you sure your plant has the benefit of all that is new in lubrication as it develops?



First oil refinery to win the Army-Navy "E"—Shell's Wood River Refinery.

Leaders in War Production rely on



Jef

a ra

Rub

pull

prog

it's

pres

trat

duc

styr

the

the

in '

Bu

WASHINGTON BULLETIN (Continued)

ge to 17 in order to keep out fathers. Possibly the deal that was defeated on the 18-year olds—to hold them in this number of for a year of training—might to offered on the seventeeners.

Draft Outlook

Short of some such drastic move as owering the age limit, the draft prospect still is that half the eligible men now in civvies will be in uniform by rear-end.

Of 6,000,000 healthy 18–38's available May 1, 2,700,000 will be drafted. Another 900,000 will be deferred for extreme hardship, 900,000 will be held on the farm, and 1,500,000 will be occupationally deferred.

This represents a half million more than present occupational deferments, but present deferments, by and large, are limited to single men; until recent weeks, essential married workers have been kept out by their families rather than their jobs.

Setting the Stage?

When the talk of a Roosevelt-Churchill-Stalin get-together in Cairo was first heard in Washington, diplomatic circles noted that Egyptian recognition of the Soviet Union was a necessary prerequisite. Last week, that recognition became suddenly an accomplished fact.

Jeffers Puzzles Them

Some Washington officials who keep a rather cynical eye on the synthetic rubber program are wondering whether Rubber Director William M. Jeffers has pulled a serious boner in letting his program get out of balance or whether it's one of the year's smartest jobs of pressure politics.

What Jeffers has done is to concentrate so much of his effort on the production of butadiene that capacity for styrene, the other component of synthetic, is far behind.

The situation is made apparent by the frantic search for pressure storage in which to keep the butadiene output of the Institute plant (page 48), which came in last month with three-fourths of its butadiene capacity but only half of the needed styrene.

Cutback on Rubber?

This unbalance in the synthetic rubber program may result from the original belief that production of styrene would present no problem and from the fact that the butadiene plants are producing above rated capacity—though this last has been obvious for months. But Jeffers' admirers point out that he is now in a strong position to resist the pressure that will come for a cutback of his program.

With 850,000 tons capacity due this year, while unexpectedly large imports have reduced essential requirements below 600,000, pressure is building up for release of critical components to the urgent high-octane gasoline program. But, with his full butadiene quota nearing completion, Jeffers can argue that it would be criminal waste not to provide the complementary styrene.

Food vs. Tires

Also working for Jeffers is the alcoholpetroleum relationship. The plants to produce butadiene from grain alcohol are coming along faster than the petroleum-base plants. Hence those cuts already made have been in the petroleum plants, and that's the logical place for further cuts. But with a grain shortage in the offing, 'the petroleum plants are wanted to free the country from reliance for rubber on grain that may be needed for food.

Akron Still Simmers

The rubber industry figures that last week's strike in Akron cost the government \$20,000,000 worth of product and was the most costly in the town's turbulent labor history. Nor is the trade certain that it has this particular dispute behind it. A rehearing of the wage issue underneath the strike is being undertaken by the National War Labor Board. It was the board's action in substituting a 3¢-an-hour pay increase for the 8¢ recommendation of its own panel that precipitated the walkout.

NWLB was emphatic in vetoing the panel report on the grounds that it would unstabilize wage rates throughout the industry—a contention with which rubber management agreed. Now, as the price for stopping the strike, the board will reexamine the question.

Resumption of operations takes a pistol away from NWLB's head, but it hasn't got the itch out of the trigger finger of Akron's local labor leadership.

Churchill Ducks Dukedom

The question of what sort of token a grateful nation would present to

New Concentration Drive-Murphy Up

Concentration of civilian industry has long been abandoned by WPB, but now concentration is up again—concentration of the munitions industries. It's in the hands of Beverley Murphy, Campbell Soup vice-president, who heads WPB's new Industrial Facilities Committee, set up to control construction of new facilities.

- Goes with Cutbacks—Munitions concentration is part of the new drive to hold down construction of additional facilities. Idea is that if three plants are working at less than capacity on a cutback munitions item, the work can be concentrated into two plants, releasing one plant for a job on which new facilities are needed.
- Bound for Trouble—Handling the concentration plan will be a big job, involving transfer of contracts, moving of tools, perhaps even shifting of workers. Murphy is bound to step on plenty of toes. Already he's crossed swords with Tool Division head George Johnston on the contention that his program will permit a greater cut in the production of machine tools than Johnston thinks



Plenty of Toes to Step On

safe. Vice-Chairmen Charles E. Wilson and Ralph Cordiner of WPB backed up Murphy, and Johnston has quit. John S. Chaffee, his deputy, succeeds to the job.

save a train seat

FOR A SOLDIER

Let us help you cut down your travel in New York State

Is that trip to Buffalo or Rochester or Watertown absolutely necessary?

In these places, as in 36 other cities and towns of New York State, there are Marine Midland Banks whose officers know local people and local business.

They can be helpful in many ways. Perhaps you can use their knowledge to eliminate some travel...for the benefit of your company and your country.



mber Federal Deposit Insurance Corporation

WASHINGTON BULLETIN (Continued)

Winston Churchill once the final victory is won has been teatime conversation throughout the British Empire since Rommel was turned at El Alamein. Last week, it was raised to the level of political discussion at an informal supper which members of the British Cabinet held in the Prime Minister's absence.

The way Washington hears it, this discussion revealed no differences of opinion. Churchill was, like his illustrious and favorite ancestor, Marlborough, to be presented with a dukedom. George VI, informed of the sentiments of his ministers, expressed regal enthusiasm.

However, this was too good a secret to be kept, and Churchill heard the news when he landed at Gibraltar en route home. As the story concludes, his comment was an immediate "No, thanks"—with a reminder to his informant that only a commoner, who could sit in the House of Commons, was likely to get the Prime Ministry in this political age. And son Randolph, now in Commons, wasn't going to be taken out of the running by a coronet for Winston, involving a marquisate for him.

Back in Business

The War Production Board this week removed preference ratings for distribution of textile and leather products from all but some military and essential civilian demands, thus restoring unrestricted distribution to a big section of industry. Cancellation of procurement ratings became effective June 1.

Confusion caused by "uncoordinated and uncontrolled" assignments is given as the reason for the new order, M-328. As a result, textile and leather producers and distributors can sell their output and stocks to any purchaser once they have met military and essential civilian needs.

If sellers fail to use good judgment in giving purchasers with essential needs the goods they want, the government is likely to return with much stricter control through allocations. Ratings have been abused in the past; for instance, priorities for operating purposes have been used to replace worn-out carpets when no one had determined whether or not the wool might be more essential for civilian clothing.

Conservative on Labor Job

Employers to whom the WPB-sponsored labor-management plant committees have always looked like soviets will be gratified that the new labor vicechairman who is to head WPB's production drive is a conservative AFI man. The C.I.O.—which has been a terested in the organizational potentiaties of the labor-management commutees—has put its man into WPB vice-chairman to handle production manpower problems. The A.F.L. vio chairman, Joseph Keenan, is from the building trades, has been in WPB for long-time as administrator of the secessful Construction Labor Stabilization Agreement worked out by OPM to years ago.

DUC eel In

ectric

iscella 1 Oth

CES (

oot C dustr omest inishe

opper Theat ugar (otton Vool ubber

ANC

) Sto

ledium igh C

all L

NKIN

eman otal

220

210

200

190

180

70

60

50

40

C.I.O. had a hard time finding labor official who dared to leave he union fences unmended for long (BW, May22'43,p7) but finally settled a Clinton Golden of the steelworkers.

The A.F.L. vice-chairman will has a C.I.O. assistant and vice versa. We dell Lund, head of WPB's Labor Pn duction Division, is resigning.

Soap Rationing Delayed

Soap rationing, originally schedule for early June, has been postponed to porarily owing to OPA staff limitation Rationing at the rate of 1½ lb. a month per person will be started as soon a OPA can work out the details. Shaving soap may be excluded.

Rationing was forced by the rapid of soap disappearance combined with the failure of the fats and oils salva program to bring in enough to maintain high levels of production (BW-Ma 15'43,p24). Rationing is expected to concentrate soap sales in grocery stores.

Soap stamps will be torn out of ou of the food ration books; consequent it will be more convenient for Mn Housewife to buy her soap at the greery store than at the drug or department store.

Capital Gains (and Losses)

New substitute for shoe leather: flexible wooden soles, developed at the for est Products Laboratory in Madison Wis. Army is considering them for tropical climes, where leather often won't stand the gaff.

WPB's Office of War Utilities has been fairly successful in lobbying against state revocation of war time. It lost in the Michigan, Ohio, and Georgia legilatures, but most cities in those states are remaining on war time, and it is a cities that reduction in power peal loads is vital. In Illinois, an anti-wartime bill was tabled. No difficulty in anticipated in killing similar legislation in Florida.

—Business Weeki Washington Bureau

IGURES OF THE WEEK

	8 Latest Week	Preceding Week	Month Ago	6 Months Ago	Year Ago
EINDEX (see chart below)	*206.7	†205.8	203.5	191.0	180.0
DUCTION					
(Operations (Ch. of canacity)	98.4	99.3	98.2	98.3	99.3
Automobiles and Trucks	16,775	19,175	18,990	14,345	21,500
Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$12,845	\$11,402	\$12,873	\$25,015	\$38,460
Power Ontout (million kilowatt-hours)	3,990	3,992	3,867	3,766	3,323
1. Oil (daily average, 1.000 bbls.)	3,970	4,006	3,919	3,878	3,877
uminous Coal (daily average, 1,000 tons)	1,928	+2,050	1,973	1,925	1,878
DE					
scellaneous and L.C.L. Carloadings (daily average, 1,000 cars)	80	80	79	- 81	79
Other Carloadings (daily average, 1,000 cars)	61	61	53	58	61
ney in Circulation (Wednesday series, millions)	\$16,902	\$16,795	\$16,593	\$14,648	\$11,971
partment Store Sales (change from same week of preceding year)	+20%	+16%	+29%	+30%	-2%
siness Failures (Dun & Bradstreet, number)	64	47	52	107	210
ES (Average for the week)					
of Commodity Index (Moody's, Dec. 31, 1931 = 100)	245.7	245.8	246.3	230.9	230.0
Instrial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	159.8	160.1	159.6	154.9	152.9
mestic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	207.9	207.6	208.0	186.7	183.5
ished Steel Composite (Steel, ton)	\$56.73	\$56.73	\$56.73	\$56.73	\$56.73
ap Steel Composite (Iron Age, ton)	\$19.17	\$19.17	\$19.17	\$19.17	\$19.17
pper (electrolytic, Connecticut Valley, lb.)	12.000¢ \$1.38	12.000¢ \$1.38	12.000¢ \$1.38	12.000¢ \$1.24	\$1.13
heat (No. 2, hard winter, Kansas City, bu.)	3.74e	3.74é	3.74é	3.74e	3.74
tton (middling, ten designated markets, lb.)	21.26e	21.22e	21.14e	19.25e	19,44
tion (midding, ten designated markets, ib.)	\$1.340	\$1.345	\$1.335	\$1.184	\$1.209
bber (ribbed smoked sheets, New York, lb.).	22.50¢	22.50¢	22.50¢	22.50¢	22.50
NCE					
Stocks, Price Index (Standard & Poor's Corp.)	96.2	94.6	93.2	74.0	65.0
edium Grade Corporate Bond Yield (30 Baa issues, Moody's)	3.89%	13.90%	3.93%	4.28%	4.30%
oh Grade Corporate Bond Yield (30 Aaa issues, Moody's)	2.74%	2.74%	2.75%	2.81%	2.85%
S. Bond Yield (average of all taxable issues due or callable after twelve years)	2.29%	2.30%	2.31%	2.36%	2.33%
I Loans Renewal Rate, N. Y. Stock Exchange (daily average)	1.00%	1.00%	1.00%	1.00%	1.00%
me Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	1-1%	1-1%	1-1%	1-1%	8%
KING (Millions of dollars)					
mand Deposits Adjusted, reporting member banks	31,185	30,652	30,098	30,224	25,511
tal Loans and Investments, reporting member banks	47,068	47,368	45,772	37,939	31,720
mmercial and Agricultural Loans, reporting member banks	5,512	5,545	5,645	6,241	6,55
carities Loans, reporting member banks	1,662	1,751	2,156	800	938
S. Gov't and Gov't Cuaranteed Obligations Held, reporting member banks.	34,093	34,215	31,909	24,581	17,180
her Securities Held, reporting member banks	3,074	3,079	3,226	3,300	3,584
cess Reserves, all member banks (Wednesday series)	1,500	1,640	2,280	2,518	2,535
tal Federal Reserve Credit Outstanding (Wednesday series)	6,493	6,434	6,655	5,083	2,584

eliminary, week ended May 29th.

A.F1 been in tentia commi VPB ductio L. vice PB for the sug ilizatio

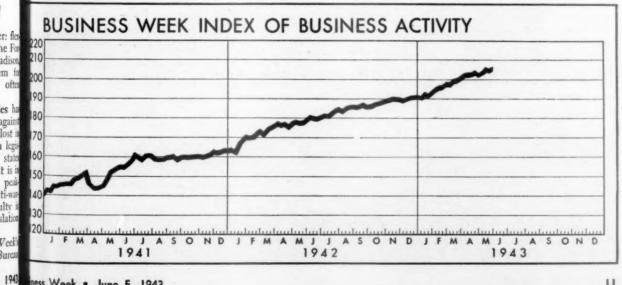
nding ave hi (BW.

kers. ill have . Wen

hedule ed ter itation mont soon a Shavin

pid rated with salvag aintai V-Ma eted t stores of on quenth r Mn he gro depart

§ Date for "Latest Week" on each series on request.



What becomes of



THERE'S a sign hanging at Hotel Pennsylvania.

• It's a sign that was put up the day Hotel Pennsylvania opened its doors. It's a sign that will stay up there as long as Hotel Pennsylvania is in existence.

That sign reads, "The guest is always right." And that applies in wartime as well as peacetime.

> No matter what difficulties the war may bring us, our first consideration is for the comfort and well-being of you — our guest.

You may be a serviceman, or a civilian on a war mission, or an essential wartime traveler.

But no matter what job you are doing, that sign is your guarantee that we shall give you the best possible service we know how to give. The guest is always right

in WARTIME?

In this spirit, may we ask your cooperation in helping us solve two wartime problems to the best interests of you and us?

In the matter of reservations.
Reserve your Hotel Pennsylvania
rooms as far in advance as possible. Cancel any unwanted rooms
promptly. Let us know as far
ahead as you can, when you intend to check out.

2 In the matter of service. If service occasionally seems a trifle slow, please bear with us. Many of our

regular staff have gone into armed services and our new per may not be fully familiar with routine.

ed th

We're sure you'll co-operate with cheerfully. And you can be sure we do our level best to prove to you'd at Hotel Pennsylvania, "The guest always right."

YOUR DOLLARS ARE URGENTLY NEEDED FOR U. S. WAR BONDS

THE STATLER HOTEL IN NEW YORK

HOTEL PENNSYLVANIA

JAMES H. McCABE, General Manager

HE OUTLOOK

b for a Mobilizer

Strikes shadow the production picture, and price-cost oblems get even more complex. Tide is still running out on the groods. New curtailments may be in prospect.

With coal again in the forefront of news this week, the effects on the ng side of the balance sheet of inion and production began to mount Even last month's stoppages, inling wildcat strikes in the mines, lost to that 1943 needs. This week's thowns will reduce available supplies more than that.

d Precedent

What's more, it is clear that, just as miners' defiance of the no-strike age a month ago stirred workers in er fields into "unauthorized" strike mes (BW-May29'43,p13), so will ir new walkout accelerate all the st tendencies towards direct action other industrial fields. Strikes loom an ever larger debit factor in the nediate production outlook.

Inother 1.3% jump in April has ed the cost of living to 23% above January, 1941, level—as compared he the 15% increase upon which the the Steel wage formula is based. If the official index reflects only some, no means all, the price ceiling violates. The biggest advances, of course, the come in retail food costs (page 30), ich the Office of Price Administratis now trying to roll back. However, Lewis' example forces other unions to wait for OPA, or if OPA's efforts uld fail because of a lack of funds for sidies and ceiling enforcement, the ire line on wage rates may well be ken.

ce-Cost Dilemma

w pe

with

with

yout

guest

5, 1

That would complicate the already pplex price-cost problem facing the A and the Office of Civilian Requirents in many production lines—a problem that the new Office of War Mobilizm may yet have to resolve.

On the one hand, price ceilings are king capacity operations unprofitable tome cases. Some producers, as in tiles, cannot afford the 50% wage mium for overtime, while others, as anning, cannot pay the higher wages ded to attract new (and less efficient) there into the labor market.

In the other hand, insufficient price production control is permitting manufacturers to concentrate on tively high-price and high-profit-mar-

gin output. In a war economy, which puts emphasis on increasing quantities of standard and simplified products, such upgrading works to the detriment of civilian supply. This week's WPB order canceling all outstanding preference ratings for textiles and leather goods, except those covering military or other governmental needs, puts it up to the industry to tighten control over nonessential uses of contracting civilian supplies.

No Turn in Tide

As a matter of fact, despite WPB's recent moves to expand manufacture of such items as iceboxes, alarm clocks, pressure cookers (page 36), and radio tubes, and the increasing attention being paid to the need for upping quotas

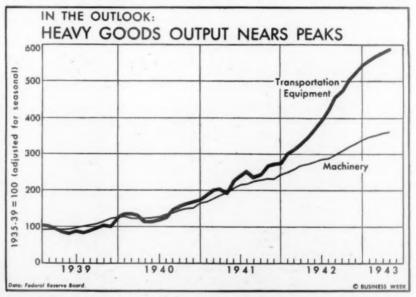
on other hardware and household equipment, the aggregate supply of goods for civilians is still declining. Even the turn in trend is not yet in sight.

turn in trend is not yet in sight.

In the first place, WPB's total allocations for consumer "hard goods" were reduced in the third quarter from the second-quarter level. Even were total new durable production increased, market supplies would still be lower than formerly; distributors until now have been able to drain their large inventories of refrigerators, hardware, repair parts, etc., but cannot do so any longer. Further, the civilian's share of the more important group of "soft goods"—food, textiles, apparel, fuel, beverages, etc.—is still dropping.

Emphasis on Curtailment

One example is the new cut in gasoline rations, which may be extended further over the nation. In addition, a nation-wide dimout to save coal is being talked about, and the supply of oil and coal for heating may well be worse next winter. Also, three weeks ago, Donald Nelson spoke of the imminent possibility of clothing and textile ra-



Here is one more indication that war production is beginning to flatten out. In addition to machine tools, farm implements, and other productive equipment, the machinery index also covers many ordnance, electronic, and other war items—and the transportation equipment index includes output of ships, planes, tanks, and other armament. This approach of munitions production towards its peaks points up the current tendency of total in-

dustrial production to stabilize. Since Pearl Harbor, gains in these two heavy-goods manufacturing lines have accounted for almost all the increase in industrial production indexes. So far this year, increases in both machinery and transportation equipment output have run at little more than half the rate of the preceding year, and probably by the fourth quarter of 1943, month-to-month gains will become negligible.



CONVERSATIONAL COMA

Having mulled over the issues for months, John L. Lewis and the soft coal operators slipped last week into a lethargic deadlock. There seemed to be nothing else to talk about; one operator commented: "We just sat and looked at each other." But this week the heat was on. Their strike truce ended, the miners walked out of the pits again. Negotiations snapped to life. Lewis and the operators began pushing for a quick settlement.

tioning. And civilian food supplies are still contracting.

For instance, total domestic fats and oils for this year are figured now roughly at 11,000,000,000 pounds, 1,000,000,-000 less than last December's estimate. The canning industry is concerned about obtaining its huge seasonal manpower needs this summer. Again, glass container manufacturers are finding demand running 20% ahead of production, and WPB may have to curtail packaging use for soft drinks, beer, and liquor. Further, distillers may not be permitted resumption of whisky production, even if alcohol needs are met, because of the tightness in grain supplies, which may be aggravated by the recent floods in the Midwest. Indeed, if crops do not recover, meat and dairy production will be markedly affected (page 14).

Needed for War

In the outlook for civilians, all the deepening difficulties in the way of production-manpower, materials, weather, price-cost problems, etc.-constitute but one side of the problem. The other side covers the increasing requirements of the war economy, not only for direct military use, but also for lend-lease aid to our Allies and to the peoples whom we succeed in liberating. The possibility of increasing civilian supply by release of resources from direct military use is still questionable and somewhat remote. But the one substantial certainty for decreasing civilian supply will be the mounting needs, not only of food, textiles, drugs, etc., but also of such durable items as railroad, power, sanitation, and other equipment for the liberated lands of Europe.

Bread or Bacon?

We can't have both. If we feed grain to record number of hogs, there will be too little for baking. It's up to Davis.

Chester Davis is facing his hour of decision. The War Food Administrator must decide whether it will be bread or bacon, and the decision will affect the butcher, the baker, the aluminum foundry, and every household in the land-plus the citizens of Bulgaria ultimately. Davis' success or failure as czar of wartime food supplies may depend on whether he can summon the courage to make an unpopular decision to cut down the livestock population—the nation's meat supplies.

Here is the simplest way to state the situation: If you were caught on a desert island with a shoat and a bushel of wheat as your only food supplies, what would you do—feed the wheat to the shoat and then eat it, or kill the shoat

and eat the wheat separately?
• Problems Involved—Davis' decision, of course, is not quite that simple. The present record hog population is the result of past Agriculture Dept. pressure on farmers and production policies. Attractive floors have been placed under hog prices; current ceilings bring lush returns to farmers. Other livestock prices also are good.

Any deliberate government effort to cut down production of meat animals would be attacked from two sides: (1) farmers who want to maintain high returns from livestock; and (2) the meliking U. S. public which never we understand the intricate reasons; complex relationships behind sudmove—particularly since the government's wartime food public relationships to date has failed to prepare people for the dilemma now faced Davis.

stribu

der re

Hour

Davis mply

li

meet ven co

g cont

comp

Davis

vis v

e Adı

pease ck su

avis']

buld a

y mo

Shake

tion

lizatio

ntrali

thorit

dicate

With

ess m

incipl

ottest

• More Than Food Involved—Industry meanwhile, has much at stake. They corn grinding industry, which may everything from dextrose to the kind starch used in making aluminum particles for war machines, has been forced reduce production in recent weeks between 50% and 70% of capate Inability to buy corn in the open particles that they was channel corn into this industry was channel corn into this industry was furnishes vital raw materials for a consection of the nation's industrial; food economy.

Shortly after Davis became food ministrator, he tided the industry on similar corn crisis by a series of pa work moves. Now he must face basic problem: Corn fed to hogs bn the farmer a return of between \$1.4 \$1.50 a bushel, but corn sold on open market can bring only the cel price of \$1.08.

• Wheat Won't Answer—The situate is critical all along the feed front.

Mar. 26, the Commodity Credit Commodity C

virtually exhausted. Matched against the general w supply outlook, this means that the tion cannot continue to gobble upw for feed and alcohol (the base of plosives and synthetic rubber) and hope to meet what might prove to astronomical foreign relief dema Even the Agriculture Dept., which ways has painted a rosy wheat pitt was forced to admit that, if we use same amount of wheat in the year 1, 1943, to June 30, 1944, that we in the current crop year, we shall up with only a 300,000,000-bu. over prior to next year's harvest. As there should be a 1944 crop failure, ply wouldn't even meet home need • Effect on Dairying-The feed also affects the dairy situation plays such a big part in the mi domestic dietary plans as well a foreign relief. At home, the dairy tion is so critical that: (1) Rationin evaporated and condensed milk ha be ordered this week to protect plies of these products for babies; (2) regional rationing of fluid milk have to be tried in at least a half-do

The feed shortage also may a dried skim milk out of bread who plays an important role in the diet

areas in the near future.

tion short of protein. The Food stribution Administration's bread der requires bakers to use at least three its of milk solids to every 100 parts flour in white bread.

Davis can't meet the situation by mply issuing an order cutting down e livestock population. Properly ndled, the situation requires a numr of intricate government steps that lect the whole field of food producton, processing, distribution, pricing, d rationing. Davis will not be able meet the situation unless (1) he is en complete food pricing and rationg control, or (2) the OPA mechanism completely subjugated to his policy rections.

e kind

um p

week

Davis

food

of par face

1 on

ont.

dit C

of w

of

Davis Opposes Subsidies—While avis was facing this critical decision, e Administration and OPA sought to pease labor by instituting a price rollek subsidy on butter and meat. From avis' point of view, the extension of is policy to unrationed commodities ould amount to subsidization of shortery more of the very products whose e should be discouraged.

Shakeup in Order?—Eventual recogtion of the complexity of the food isis facing Davis may force War Molization Director James F. Byrnes to ntralize food pricing and rationing thority in Davis. Congress already has dicated it would back up such a move. With the Administration and Coness miles apart on the fundamental inciple of subsidization of food prices, avis may be the only man who can ing the two together.

Poised for the Big Push

No matter where the blow lands in Italy, strategists agree that it will prepare the way for a drive on Hitler's Balkan flank, with Belgrade and Budapest next on the schedule.

The next great turning point in this war is approaching.

Some time within a few weeks the United Nations will breach the walls of Hitler's European citadel—perhaps at several points.

Inevitably, the loss of life in these frontal assaults will be appalling—in some spots because the toe hold is too minute, the strategic odds too heavily against us. But some spots we shall hold and enlarge, and from them Axis Europe will be systematically strangled.

• Strategy Clear—There can no longer be any doubt of United Nations strategy. Its broad outlines were determined long before the Roosevelt-Churchill conferences which ended last week.

Last winter's persistent drive to clear the Axis out of North Africa had three main objectives: (1) to cut off the Axis from vital African supplies, (2) to reopen the short Mediterranean route to the Middle East and India, and (3) to provide bases—for planes, men, ships, and supplies—from which to launch one or more attacks on Europe from the south. The pattern was neatly unfolded more than a year ago by Col. W. F. Kernan in his book, "Defense Will Not Win the War," when he called for a bold campaign along the bleak south

shores of the Mediterranean to provide the springboard for an offensive against the Axis through weak and disgruntled Italy

• Won't Waste Time—It is plain that London and Washington intend to waste no time tackling this new job. Mussolini's vaunted "Little Malta," the heavily fortified island of Pantelleria between Tunis and Sicily, already is suffering the full brunt of Allied aerial attack, probably with little of the determined fortitude that the real Malta showed under two years of withering Axis bombing.

Sicily, only 90 miles northward from Tunisia, is being smashed systematically in 400-plane raids, and Sardinia's terrified population is fleeing to the hills. The soft spring sunshine of the Mediterranean is lost behind the flaming spirals of smoke rising from the rubble of Mussolini's island cities, and the whispered reports of convoys steadily steaming past Gibralter into the Mediterranean strike terror into the Italians of the coastal cities, for they know that neither their fleet nor their planes are a match for those of the cnemy.

 Strike at the Heart-Some analysts declare that the United Nations, when they are strong enough to stage their





en. Cotton Ed Smith (above) and is Senate subcommittee on food st week juggled one of Washington's offest political potatoes—the subsized rollback. Theirs was the unappy choice of making farm enemies of recommending subsidy appropriations to a hostile Congress or making

White House enemies by killing the idea. Jesse Jones (above left), whose Reconstruction Finance Corp. would pay the bills, is only lukewarm to the subsidy idea that would cost an initial \$400,000,000 and would cut living costs only about 1%. Food boss Chester Davis (above right), however, is

completely cold, holding that decreased prices would encourage buying and upset the already precarious supply. Even more bitter are the prospective recipients—processors and packers. But they probably all will have the problem resolved for them by OPA's shift to appeasement (page 17).

attack on Mussolini, should head not for Palermo, Messina, Naples, and Livorno, but lash boldly at Genoa, Milan, and Turin—in the industrial heart of Italy, without which Rome could stage little more than a short, losing struggle. The rest of Italy, they insist, would collapse without a struggle if communications with Berlin were severed south of the Alps. At the same time, a connection could quickly be established with France along the very Riviera border where Italian troops in 1940, on orders from Mussolini, stabbed France in the back. Along this route, the Free French forces—now rapidly being reorganized and equipped in Tunisia and Algeria—could push up the Rhone valley toward Lyon and Paris.

But wherever the blow may fall on Italy, there are few strategists who fail to see in it the first move to flank Hitler in the Balkans and prepare the way for a two-pronged United Nations drive on Belgrade and Budapest-one prong driving across the Adriatic from Italy through Yugoslavia (where it would be welcomed by Gen. Mikhailovitch, the unconquered Slav War Minister), and the other striking north from Turkeywhich is expected to join the United Nations before July-and heading across Bulgaria and through the vital Rumanian oil fields before turning west up the Danube to join Allied forces at Belgrade. Need Steady Supplies—Cleaning up the Mediterranean supply route is necessary before this eastern drive can be opened, for its success will depend on a steady flow of supplies from Britain and America. And while the oil for fleet operations and for tanks and trucks in this drive can come from Iran and Bahrein

through the Red Sea, and from the Mosul fields by pipeline to Palestine and Syria, the drive still must depend on American and Caribbean oil refineries for its high-octane aviation gasoline.

Moscow's complacent attitude toward Nazi armies now massing in the Crimea and on the Kuban peninsula bespeaks confidence that an Anglo-American drive in the Balkans will develop first and that the very threat of it will force the Germans to withdraw men and equipment to protect the Balkan flank. The race now is to see who can strike first and hardest. Skirmishes along the Russian front in the last few weeks are feints. How quickly the Allies can launch their next Mediterranean move will determine whether Hitler tries one more blitz offensive against the Caucasus.

• Other Drives Ahead—The great drives just ahead will not be confined to the Mediterranean. Norway will be freed, but whether London has decided on a frontal attack or on some minor skirmishes while the major thrusts are made through Denmark, Holland, or France remains a question.

Freeing Norway would remove 1,300 miles of potential fueling havens for Nazi submarines, cut off the winter delivery route for Swedish iron ore, remove the worst threat (from Nazi-held airfields in northern Norway) to the supply route to Murmansk—now little used but important again if Finland is to be pinched out of the war; it would pave the way for Swedish entry into the war, provide the United Nations with airfields from which such Nazi industrial centers as Hamburg and Bremen could be blasted, and clear the way for naval



BREWSTER BOMBERS

Flying for the Navy in ever-grown squadrons are Brewster's Buccane (SB2A's), two-seater dive bombers ported to be the world's best by Brish pilots who fly their counterpar Brewster's low output of needed Brewster's low output of needed Brewster's second set of manage and the drafting of Henry J. Kan to try his hand at boosting Brewster production (BW—Mar.27'43,p28).

is be

Why

as fir

eon

psed,

faxor

nonth

of G

Hoffr

Hoffi cultu

origin

Pr

make

Davi

rigid relax

Busi

aid to support a thrust against Denma on Germany's North Sea coast.

• Urge Assault in Denmark—But so bold strategists insist that nothing me than feints should be made in Now and that the real breach should be tempted in Denmark where the Newall" is believed to be weakest.

The route over which the climatinvasion ultimately is likely to pass last raight from England to Dunkern Calais, and Dieppe. Though it reputed has been made impregnable, it is the shortest route to the continent can be supported by intensive fleet of centrations, an umbrella of planes, a a barrage from Dover's chalk cliffs.

Allies Poised. The mean are possed.

 Allies Poised—The men are poised these lunges at Hitler's stronghd Britain is bulging with supplies—fm block-buster bombs and mountains machine guns to caverns of gasoline a great dumps of canned food.

Roosevelt and Churchill last we wrote their O.K.'s on only the final at tails of the summer's momentous plan for the pattern was drawn up mont ago at Casablanca. How many this will be launched at once, where the pressure will be greatest, exactly what the timing will be—these will unforwith the summer.



FAST WORK

By quickly bypassing a flood break in Big Inch with a 7½-mile emergency pipeline, repair crews averted disaster in an already critical oil situation (page 26) last week. The new section, laid above ground (above), bridged a gap ripped in the line by rampaging Arkansas River waters at Little Rock. Working around the clock, trouble shooters made the repair in four days.

PA Turns Kindly

With the "resignation" of braith, policy will be one of easing business and farmers. id orders to languish.

Now that the hold-the-line order is OPA is primping itself for a my romance with business men and mers. Deputy Price Administrator Kenneth Galbraith, whose tough-guy itude antagonized industry, has been d. His job has been split up among cessors who have a record of worksmoothly with the Dept. of Agrihare (and farmers), and with WPB d industry.

For the rest, Prentiss M. Brown is ering every OPA price chief to check industry advisory committee for e and representation and hereafter ne orders only after the committee been consulted and presumably

-grown

ccane

nbers

by B

terpar

led B

lanage

. Kais

ewste

tisfied. Why Galbraith "Quit"-Galbraith as fired just as quickly as his idol, eon Henderson, and for the same asons. Once the hold-the-line order psed, Galbraith's usefulness was temed at an end. His continued psed. resence at OPA would have meant ore and more rubs with Congress, ould have endangered appropriations, ad could have cost votes among mers and merchants. So, within a ouple of hours last Monday, a quickie resignation" was cooked up. Stories that Galbraith's exit is a

ersonal victory, engineered by Lou faxon, Brown's right-hand man, are me only in a symbolic sense. The ue only in a symbolic sense. o had been at loggerheads for onths, Galbraith representing strinent price-control and Maxon favoring miency. But this clash was too arochial to result in Galbraith's ous-The strike in the coal mines and he obvious impossibility of keeping lown living costs without real subsidy noney, taxes, and price-policing sent he Administration back on its old ack-appeasement-which is strictly out f Galbraith's line.

Not too Tough-Austin C. (Oscar) Hoffman takes over the food half of the lanky Princeton professor's job. Hoffman is a onetime Dept. of Agriculture man (Bureau of Agricultural Economics), on good footing with Chester C. Davis, War Food Administrator. His record at OPA, where he originally had charge of food prices, has not been one of toughness.

Prospects are that Hoffman will make few moves without consulting Davis, and that-all in all-the proposed rigid control of food prices will be relaxed on the grounds that production and distribution are stifled under

iron-bound control. Significant, too, is the fact that Davis is no advocate of big subsidies.

• Wallace Gets the Rest-The rest of Galbraith's job-all other prices except food-has been handed to Don Wallace, heretofore director of the Industrial Manufacturing Price Division. Wallace is a former Harvard and Williams economics professor but has managed somehow to escape the academic stigma. His record at OPA is that of a thorough, likeable plugger, trusted by all of OPA's factions.

Meantime, Lou Maxon seems to have clinched the general manager's post. This position entails control of practically all of OPA's personnel and means that Maxon will have a potent influence on OPA policy. Maxon's views on policy matters are no secrethe wants to fire the professors, simplify price-control, and run OPA largely as a cooperative venture between government and producers.

• Changes Baffle OPA Chief-Brown, by nature, is suited to work with a setup of this type. But he has expressed no joy over his prospects. The fight be-tween Maxon and Galbraith left the sensitive Brown exhausted. Furthermore, the rapid shift in orders from the White House was disturbing to him. First he had to radiate sweetness and light when he stepped into Henderson's place. Then he had to play tough when John L. Lewis starting acting up. And now he has to backtrack once more.

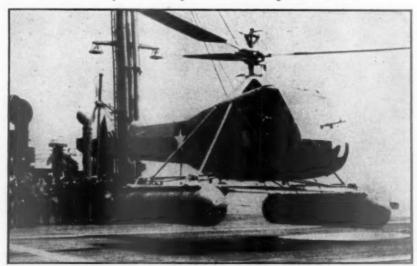
Brown's closest associates believe he will resign as soon as OPA's appropriation is passed by Congress. But whether he can take this easy out will depend

ultimately on one man: the President. · Strict Orders to Wilt-What will happen to OPA's recent, much stricter price regulations when the wooing of industry, farmers, and Congress begins is hard to forecast in detail, but not as regards ultimate effect: There is bound to be a relaxation. The subsidy on butter (the first of three subsidy programs on butter, meat, and coffee) is slated to start June 10 and is intended to roll back the retail price 5¢ to 6¢ a pound.

In all probability, the program will

actually get under way. But the headaches it will involve (all federal milk-marketing agreements have to be rewritten so that the pegged butter prices won't unduly depress fluid milk prices) could sour the meat and coffee programs. Subsidy opponents will be quick to label the butter venture a flop and to see that the expansion of subsidies will be extremely small or none at all. • Serves as a Reprieve-As for the rigid community ceilings and the squeezes on middlemen (used notably in the case of potato pricing), these can readily be revamped when OPA joins hands with farmers and industry. This businessgovernment union, incidentally, may forestall a congressional move to split up OPA and to hand pieces of it to the

Dept. of Agriculture and WPB. • Hopes and Dangers-Business speculation and public overbuying-both induced by a tilted price-structure-are continual, potential pitfalls. But business men like to bank on two hopes-a heavy sales tax (to discourage overbuying) and much bigger civilian production as the Administration's last trump if inflation gets too bad.



HOVERING PROTECTORS

American and British shipping authorities now believe they can lick enemy submarine and plane menaces by carrying aircraft aboard merchant vessels (BW-May29'43,p76). But the

United States is adding a new twist by using helicopters. Convinced in recent tests that the wingless plane can operate from a 20-ft. square aboard ships, Adm. Howard Vickery revealed that Maritime Commission boats will be fitted with helicopter flight decks.

Water Peace?

Colorado River states now seem in a fair way to settle the old row over which will get flow from Boulder Dam.

For 21 years, while the U. S. government has harnessed the mighty potentialities of the Colorado River in the half-billion-dollar Boulder Dam system, lower states in the river basin have fought over the pent-up water. The bitter interstate dispute is explained by the fact that, in the arid Southwest, no large farming, industrial, or communal development is possible without large use of water. Arizona, insisting that proposed allocation of water hopelessly shackled its future, has remained until this day out of the Boulder Dam Compact, signed by six states in 1927.

• Settlement Comes Nearer—At Denver last week, the advisory committee representing the basin states seemed closer than ever before to getting Arizona into partnership. The committee's function is only advisory to Interior Secretary Harold L. Ickes, who administers the compact, but in the past, he has conformed closely to its views.

Arizona has been torn for years between an adherence and a nonadherence party. Right now, the adherents are

on top, led by Gov. Sidney P. Osborn.
This spring's Arizona legislature stated, in effect, that if a contract to Arizona's liking was proposed, the state would join. Promptly the committee

got busy. The four upper basin states—Colorado, New Mexico, Wyoming, and Utah—and Nevada of the lower basin voted either to concede Arizona's claims or to leave them for friendly discussion later.

Holdout is California, which has always frankly bid for all the water it could get for Southern California.

• Possible Solution—The river (excluding the Gila, a tributary entirely within Arizona) normally produces about 16,000,000 acre-feet yearly, nearly 15,000,000 feet of it from the mountainous upper basin. The four upper states are bound by the compact to let down an average of 7,500,000 acre-feet yearly at Lees Ferry, retaining the rest for themselves. In the lower basin, the permanent contract picture begins to look like this:

California—4,400,000 acre-feet annually from the river, plus one-half of whatever unappropriated surplus comes down.

appropriated surplus comes down.

Arizona—2,800,000 and one-half the surplus

Nevada-300,000 acre-feet and ½5 of the surplus (taken from Anzona's half).

• Dispute Over Gila—This doesn't count the Gila's million acre-feet. Arizona doesn't want to include this in its stated share; California insists that it be included. Another dispute for future settlement is whether Arizona should pay cash for part of its water as California now does.

All the states, however, want to become a united group to present a close front when the question arises, as it will sooner or later, of how much water must always be let down to Mexican

farms and cities.



SERGEANT'S HELPER

In the modern Army, even the leatherlunged sergeants are helped with electrical equipment. Powerful amplifiers, operated by portable public address systems, go with soldiers into the field—to maintain contact between officers and men. Thus when American troops landed on Japanese-held Attu Island (above) recently, loud-speakers kept operations flowing smoothly.

New Frontiers

The

on allo

eason b

ortatio xist, a

Bg

here

ource

ossible

o ope

ave r

ragons

Junio

ors as

bly v

ramp

eral R

such

sumpt

rollme

tration

The

pared cial

thing

part

Ca

powe

men

Cam

sonn

In 1

thre

prob

wou

Mos

stud

50

18-

mai

· S

mo

ally

car

ers

501

for \$1

he

by

Summer camps welcom and with bulging enrollment the rigors induced by ration of food and travel.

Expectations that summer can faced with the rigors of war-food tioning and inaccessibility under fense transportation restrictions-wo take a well-earned vacation for the selves this year are dissolving. In g eral, camping groups welcome rate ing, transportation difficulties, and to the manpower problem as a reals challenge to their capacity for the face.

• Big Summer Ahead—Actually the will be more boys and girls betwee the ages of 7 and 15 in camp this amount of the New You Times Camp Service Bureau are not not some than at any time since predent sion years. Inquiries to the New You Times Camp Service Bureau are not not some stopped a expensive castern camps stopped a expensive castern camps stopped a vertising the middle of May became of capacity enrollments. Not not some stopped and the first week in July.

The boom is not limited to the la ionable private camps. Registrati for Boy Scout, Girl Scout, Y.M.C. Y.W.C.A., and church camps is high

than ever.

• Boarding Camps Preferred — It camps have been promoted by a plant personnel directors seeking relieve working mothers from concernous control over children, and public schools has established such camps in war indust areas. But in most cases transportate to and from such camps has proved to be such a problem that war plan now recommend medium-cost or longified boarding camps for children of their women workers.

While children of working mothe probably account for the biggest pution of the increase for all kinds camps, according to camp director the ranks are swelled also by youn sters who usually spend the summ at family summer homes which a not being opened this year because the scarcity of servants and gasoline
Charity Camps Swamped - Charity camps, more than 200 ot which ser the New York area, still are unable take care of all applicants. Such camp sponsored by various churches, t American Legion, Masons, Rotary, k wanis, Life magazine, and the No Herald-Tribune accommodat York 100,000 New York City boys and girl annually. The program and activit are not distinguishable from private and organization camps except for extra milk available to nonprofit camp hrough a program of the Food Dis-ibution Administration.

rs

velcom

ollmen

rationi

ner cam

ar-food

under

ons-w

tor the

me ration, and evaluation

the fr

ally the

betwe

this su

predepa New Yo

are n

pped a

becar

Norma

n mon

en abo

the far

istrati

M.C.

is high

by u

king

Conce

ols ha

ndust

ortatio

prov

plan or lo

lren |

st po

ecton

The Office of Defense Transportaon allows camps one special trip per ason between camp and nearest transortation when no regular facilities sist, and camp directors are entitled o B gas ration cards. Only in cases here distances from railroad and ource of supplies make operation imossible have camps been obliged not o open for the 1943 season. Others have resorted to horse-drawn covered agons and chuck wagons.

Junior's Ration Book-Camp direcors assure parents that children probbly will fare better nutritionwise at amp than at home since under Genral Rationing Order No. 5 camps are classified as institutional users and as uch receive 60% of last year's consumption, as do restaurants, with supplemental allotments for increased en-rollments. Those with smaller registrations collect campers' ration books. The Boy Scouts of America has prepared its campers by distributing a spe-cial 15-page bulletin explaining every-thing from what to do about rationbanking to how to persuade parents to part happily with Junior's ration book. Camps have had no more luck than any other industry in solving the man-power problem. The U.S. Employment Service, urged by the American Camping Assn., resumed its camp personnel service, but on a limited scale. In New York, USES will accept only three applications from each campprobably around 7,000, when camps would like to place twice that many. Most counselors used to be college students. This year many will be over 50 and more will be between 16 and 18-an age group from which a good

many campers used to come. • Short Staffs-Despite doubled salaries most camps will operate with drastic-ally reduced staffs this year, and increased responsibility will be placed on campers. July probably will see campers' whose board runs to \$500 a season doing K.P. duty—which is routine for the camp with rates of \$15 to \$17.50 a week-for camps find kitchen help just as scarce as professional.

Camp rations were supplemented by Victory garden produce last year. This year hardly a camp will be without one. Some camp directors took care of spring planting, and some look for a surplus which campers will help to can and take home at the end of the season.

• Help in Harvest-This is not the campers' only contribution to the food supply. Last year in agricultural areas farmers hired large groups of campers to harvest crops-notably Maine string beans-from time to time with such success that farmers, camps, and the Farm Manpower Service are urging more of it this year.

Silver-at a Price

Washington sees strong chance of Green bill's passage; measure would allow Treasury to sell metal at 71.11¢ an ounce.

Passage of the bill to make available much larger quantities of silver for war industry now looks quite possible, perhaps within a month. Enabling legislation, the Green bill, has the blessing of War, Navy, and Treasury departments. Even western silverites, wily to the last, will agree-at a price-and proponents insist the bill will even go so far as make the white metal available outside war industries.

• Quite a Comeback-Only politics, war, and the vast buying power of the Treasury in combination have been able to bring silver up to its present enviable position. The metal sold as low as 243¢ during the depression. Congressional and Treasury propping were required to bring it back.

For a long time now the market has been 71.11¢ an ounce on domestically mined metal; for foreign silver, the price was supported at 35¢ by U. S. purchases until war demand ran it up and OPA slapped on a 45¢ ceiling. WPB has had to dole it out to essential industries even at the higher price.

• Bloc Dictates Price-Now the Green bill would permit the Treasury to sell from its vast hoard-but the silver bloc insisted on the domestic price of 71.11¢. (Heretofore, the Treasury was permitted merely to lend this silver for the duration, and that in relatively miserly quantities.)

The effect of Treasury buying of all domestic silver at 71.11¢ has been to confine private purchasers to dwindling import supplies. This was the work of the silver bloc in the Senate-a group called by its enemies "twelve senators against the nation" and led at present by Senator Pat McCarran of Nevada. (Idaho, Texas, Montana, Colorado, Arizona, and Nevada led in production in that order in 1941.)

• Some Could be Used Up-The Green bill would permit Treasury silver certificates to be backed by silver bus bars and other equipment, thus putting Treasury bullion not required for coinage to work in essential industry. Heretofore, the loaned silver could not be employed where it would be used up; the bill would permit either consumptive or nonconsumptive use, but the nonconsumptive would have to be great enough to cover the silver certificates.

The plan to lend 1,000,000,000 oz. of free silver to Defense Plant Corp. was put into effect by the Treasury a year ago. As of May 15, this year, 699,000,-000 oz. of this had been allocated, of which 560,000,000 were actually in use. • This Year's Needs-The War Production Board estimates that 139,000,000 oz. will be needed by the war effort this year. In addition, probable foreign requirements (such as England's hope of getting 15,000,000 oz. for Indian coinage) and possible increased demands for war and nonwar uses may raise this total to between 210,000,000 oz. and 260,000,000 oz.

Essential industrial consumption now runs to 9,000,000 oz. a month. But imports, which alone are now available to industry, currently are running only 5,000,000 oz. a month. Of the Treas-ury's "silver ordinary" (the trace of sil-ver recovered in refining gold bars, from melting old foreign coins, etc.) and stocks of the Metals Reserve Co., less than 2,000,000 oz. remain for allocation to industry.

• Most Necessary Users-Big essential industrial uses of silver are for brazing alloys and silverclad metals and for the manufacture of electrical contacts and engine bearings. Silver is also used in lead-silver solder, for photographic and chemical purposes, and in electroplating.

In addition to such essential uses, there's still a big demand from the dec-orative industry. The Big Ten in the decorative arts industry are converted almost 100% to war work, but thousands of smaller fabricators want raw material so they can keep open. WPB estimates their needs for 1943 at 30,-000,000 oz. The industry as a whole used 22,500,000 oz. in 1941, 45,300,000 in 1942, and could use 51,000,000 oz. this year if available. A WPB order limits decorative arts to 50% of what they used in whichever year was bigger-1941 or 1942.

• Home Production Cut-Recent peak was about 70,000,000 oz., but it may be only 45,000,000 this year, largely because of labor shortage and the shutdown of mines that don't have important base metal output along with their silver. Imports, which have averaged 100,000,000 oz. over the past decade, have been cut to about 60,000,000 oz. because Britain is taking the Canadian output. Mexico-which usually supplies 70% of our imports-is curtailing exports by 18,000,000 oz. this year because production is off and because the republic must make coins for home use. (Some of our imported silver has come through London from Japanese stocks stolen and smuggled out of China.)

Treasury silver falls mainly into two classes: "free silver" which can now be sold only at \$1.29 a troy ounce (world price 45¢) and "monetary silver" held as dollar-for-dollar reserve for silver certificates. These groups total more than 2,400,000,000 oz. Altogether the Treasury has 3,326,513,412 oz., exclusive of what may be going through the mintswhich are working 24 hours a day.

Famine in Steel

Expansion program only one-third completed: the hungry munitions facilities will make demand insatiable.

Contract cutbacks and the current famine in steel result in large measure from unbalanced facilities expansion, from providing too many factories for the materials available. But another big factor is the failure of the steel expansion program to come through on schedule. The 10,000,000 tons of additional steel capacity laid out last year was supposed to be in full operation this month. Actually, only about 3,000,000 tons is in production, and the full program won't be complete until next February.

• Upshot is Unbalance-The rub is that steel-consuming factories are already built. There have been enough of these for nearly a year, with the exception of other raw material expansion, shipping, and the synthetic rubber and 100-octane gasoline programs. The upshot is unbalance, with more steel-con-

suming capacity than steel.

Trade sources predict that 1943 production will be 90,000,000 tons. But this won't be enough to satisfy the Army and Navy. What they got for the third quarter of this year was 40% under their bill. Over-expanded munitions facilities will make demand insati-

• How it Adds Up-This is the way the expansion picture adds up now. New openhearth capacity in operation is 2,083,000 tons with 4,873,000 tons still to come in. New electric furnace alloy capacity now in operation totals 953,700 tons on an annual basis with 1,604,200 tons still to come. Added pig iron capacity in operation is about 4,500,000 tons with 7,000,000 tons more in the works.

Reasons for the delay are: (1) The synthetic rubber, 100-octane gasoline, and aluminum programs were put ahead of steel for strategic reasons, (2) the steel companies, in the opinion of WPB, were reluctant to expand.

The rubber and gas programs are about completed now, so steel expansion should proceed more rapidly in the rest of the year. Already planned, however, is a new 100-octane program as large as the first.

• Fear of Market Glut-The steel industry's original reluctance to expand resulted from fear of giutted postwar markets and belief that present capacity was adequate. The industry did not exactly do a leisurely job, but it did not strain to the utmost.

Steel production will not be increased by the 48-hour week ordered by the

War Manpower Commission (BW-May8'43,p90). The industry already is operating in some cases in excess of 100% of capacity. The only result of the order, if enforced, would be the displacement of an estimated 50,000 work-

The industry has lodged with WMC a vigorous protest against uniform application of the order, claiming that it will result in featherbedding when workers are employed in operations that only

involve one shift of work.

• WMC's Compromise-Faced with a conflict between the steel labor union and the steel companies over exemptions from the 48-hour week order, WMC this week came out with a compromise giving the companies most of what they asked for-but balancing it with a promise to let the unions be heard on any specific exemptions.

The instructions issued to WMC regional directors postponed the effective date of the 48-hour week order from July 1 until Aug. 1. Minor exemptions to clerical workers not in general mill

offices are granted.

• Labor Weighs Exemptions—The new instructions provide that WMC regional directors must "consult" with labor representatives before any other exemptions are granted. Factors that would entitle a company to apply for exemption are: production requirements, WPB orders

limiting production, failure in the dis tribution of materials, or any reason be yond the control of the employer, L bor's unique new grant of power leave steel companies doubtful that they will obtain much relief under the order,

Steel executives claim that in the event exemptions are not freely granted payment for standby time for work no done will make costs prohibitive under OPA ceilings and thereby make it in possible to produce certain items

present prices except at a loss.

Apparently, the only steel plant that has gone on a complete 48-hour week is the National Tube Co. works at Lorain Ohio. Local WMC officials are point ing out that the industry can go on complete 48-hour basis according to the National Tube experience. In this case there has been no actual reduction in the number of employees, and requir ments for new help are still substantial above supply.

• Lend-Lease Factor - Tending tighten the steel situation are lend-les shipments of raw steel, which will be 6,500,000 tons in the next 14 months plus an equal amount in manufacture arms such as ships, tanks, locomotive and planes. Russia is looking for a bumper shipment of 3,000 locomotives this year. This is three times more than WPB allotted for domestic use.

Construction, which took 20% to



A BETTER RAT TRAP

Now produced under priorities is a new electrical rat trap that catches and electrocutes the wily rodent, drops the body into a disposal box, and then resets itself. Invented by two engineers, C. M. Stanton (left) and W. J.

Vincent (right), the device operates on 110 v., using an electric eye to shut the gates, a timer to administer the lethal shock. Stores, hospitals, and apartment houses already are using the trap, according to its producer-Rochester Automatic Trap Co. (65) Monroe Ave., Rochester, N. Y.)



Many Skills Combine in Ryerson Steelmanship

• Many skills and complete modern equipment for testing, cutting, forming, handling, shipping — all combine in Ryerson Steelmanship. All are devoted to the single purpose of this vast highly specialized steel warehouse system. All contribute to the job of getting the steel you want — in the quality, form, size and place — exactly when you want it. • True, there

are our war problems of shortage here and there, but most generally Ryerson Steel-Servicemen can take care of you. • Whether it is a question of selection, fabrication or just quick delivery—call Ryerson first. Joseph T. Ryerson & Son, Inc. Plants at: Chicago, Milwaukee, St. Louis, Cincinnati, Detroit, Cleveland, Buffalo, Philadelphia, Boston, Jersey City.

hut

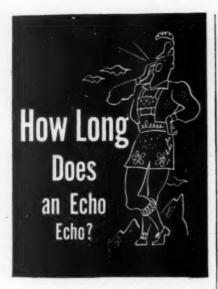
the

and

sing

21-

943



Some echoes rebound for some time, others quickly fade—it depends on how loud and long you've shouted.

But loud or not, echo-power is not enough to keep your trade name reverberating for the duration. You'll need some more substantial means of postwar sales insurance.

And one particularly good "means" is—The Blue Network.

Thanks to efficient, coast-to-coast coverage and successful audience building...the BLUE can carry your message into more homes per dollar than any other national advertising medium.

Remember, "Goodwill...\$1" is the biggest dollar on your balance sheet. Protect it with broadcasting advertising—on the BLUE!

Have you seen a copy of our Daytime Listening Study?



The Blue Network

A Service of Radio Corporation of America NEW YORK • CHICAGO • DETROIT HOLLYWOOD • SAN FRANCISCO 24% of steel supply in 1942, may be cut down to a quarter of that amount this year. On the other hand, some unavoidable bungling on the part of the Army will waste steel. Examples of last year's bungling are the 155-mm. self-propelled guns (which proved too sluggish), 20-mm. antiaircraft guns, and 30-mm. antitank guns (which proved too light). The Army has shut off production of these weapons but did not do it until thousands had been made. It is reliably reported that millions of projectiles for these guns have been made and stored in arsenals.

• Shell Loading Behind—At one time, the Army was seeking and getting nearly 100,000 tons of steel for ammunition monthly. Cutbacks ordered by the high command have reduced this to one-third, but shell making continues to exceed loading by several hundred percent.

A bright spot is about 1,000,000 tons of alloy steel which will be available next year as a result of the cut in the manufacture of machine tools.

World Granary

Plan of British delegates would set up an international "Joseph plan" for marketing all agricultural products.

Henry Wallace's Joseph plan—save in the seven flush years for the seven lean ones—is now getting an international hearing. What the British asked for at the Hot Springs food conference would be, in effect, an extension of our evernormal granary to warehouse and distribute the crops of the world as needed for food.

• Start Made in Wheat—There have in the past been repeated efforts toward an international wheat pool. (The problem of wheat always looks simpler than any other because there are only four important surplus countries—United States, Argentina, Canada, and Australia—and the need is obvious because wheat so generally is in oversupply.) Finally, a very small-scale start was made a year ago when the four surplus nations set up a pool of 100,000,000 bu. for intergovernmental relief in war stricken areas.

Britain's plan, of course, goes much further, because it would cover virtually the entire range of nonperishable foods. Presumably, it could serve to establish patterns of trade and of international cooperation far beyond the emergency feeding period that will coincide with release of conquered peoples.

Price-Raising Function—The Joseph plan has been tested through a decade in this country. Launched as the evernormal granary (called by political doubters the ever-normal quandary, and ac-

curately described through much of existence as the ever-but ing gram the program was designed to even and raise—prices received by the far for major food and fiber crops.

Farmers are entitled to pledge vested crops against government he (money is lent either by the government by banks on government guaran and to pay off the loans whenever aget ready to market the pledged pute. The government may call the good on due notice, and then federal thorities take title to unredeemed collateral.

• Activities Snowball—The Commod Credit Gorp. was created as the age to handle the granary. In 1938, they gram was integrated with soil consetion, crop control, and crop insum CCC loans and purchases to date a totaled \$6,000,000,000, \$2,000,000, of this being for farm commodities pechased for lend-lease during the last years.

Economists differ as to the degree the price-raising and price-stabilizing fects of the granary, but they agree as the value of having accumulated supplin years of plenty—if the accumulated doesn't grow into a white elepha Nearly 268,000,000 bu. of 1933 of stored under government loan prove valued backlog of livestock feed duthe 1934 drought. Drought struck as in 1936, and again the loan stocks helmake up the deficit. But this was



HERE'S HOW

Mrs. Elizabeth Bird is one of the ver few American women who tells gomets what wines to drink with what foods. Publicized as the only femal wine steward in New York, she hold forth at the Algonquin Hotel, filling the shoes of its veteran sommelie who became ill recently. Francine, a she is known, was 22 years a waites

The "power" behind our War effort __ and

how life insurance helped produce it!

FROM THOUSANDS of busy factories all over America, the sinews of war are flowing toward the battle fronts in a mighty, evergrowing stream.

The "power" behind these factories—the energy that permitted this country to become, almost overnight, one vast arsenal—is electricity.

For no other nation in the whole wide world enjoys so widely the industrial benefits of electricity. Moreover, in more than 80% of all dwelling houses, on more than 40% of all farms a flip of a switch brings conveniences undreamed of fifty years ago.

How did the vast electric power system that makes this possible come about? Through American initiative and enterprise.

Our electric power system took years of development. It took faith and courage and vision on the part of management. And it took billions of dollars, invested in the complicated equipment needed constantly to improve service and at the same time reduce the cost of electricity to the consumer. A substantial share of this money came from life insurance companies. For example, Metropolitan has invested many millions in underlying securities of public utilities, helping to finance their growth and expansion.

These are the dollars which came to the Company because life insurance agents helped policyholders to provide security based upon the needs of their particular families.

Today, by far the larger part of Metropolitan's fund available for investment is going into United States Government bonds. But when the war has been won, America's power companies will continue to progress and electricity will work many new wonders in its field. Already we are promised many new developments in radio, television, and electronics.

When, in the post-war period, money is once again needed to bring the magic of electricity to more millions of people, policyholders' dollars will be ready. For Metropolitan's 30,000,000 policyholders have faith in the continued and growing greatness of their country...a faith they evidence every time they pay their premiums.

BUY WAR SAVINGS STAMPS - FROM ANY METROPOLITAN AGENT, OR AT ANY METROPOLITAN OFFICE

Vetropolitan Life Insurance Company

Frederick H. Ecker, CHAIRMAN OF THE BOARD

Leroy A. Lincoln, PRESIDENT

1 MADISON AVENUE, NEW YORK, N. Y.





"SOUND" PROTECTION

• Many industries, large and small, are today utilizing the modern miracle of A.A.I. Automatic Alarms to guard their properties and plants against sabotage, espionage and theft. Automatic Alarms, used in connection with any type of industrial fence, employ the detection of sound vibrations to locate danger, signal and dispatch guards. Here is dependable, round-the-clock protection, to step up safety and lower costs. Use it for your particular industry.







HOIST EOUIPMENT

FOR WAR-TIME NEEDS

In Aircraft Factories, Ordnance Plants, Depots, Arsenals and Forts. Navy and Maritime Vessels. Correspondence Invited

SEDGWICK MACHINE WORKS

—Established 1893—
159 WEST 15TH STREET, N. Y.

Elevators • Hoists Roto-Drives lowed by a relatively good crop in 1937, and loan stocks of corn increased.

• The Top Figures—Approximately 800,-000,000 bu. of corn flowed in and out of the granary during the next four years. The biggest supplies the granary ever held were 462,000,000 bu. under loan in April, 1940, and 230,000,000 bu. were owned outright by CCC in March, 1941.

These loan and owned stocks helped make possible a sensational wartime expansion in the production of hogs, poultry, and dairy products, as well as increased production of industrial alcohol for the manufacture of explosives. At the moment, the CCC is practically out of owned corn, and the loan stocks total less than 100,000,000 bu.

• Wheat Helps in War-Loans on wheat, instituted in 1938, have been made to date on more than 1,300,000,000 bu. The only loans held now are on 135,000,000 bu. stored on farms, but the corporation owns some 345,000,000 bu. of wheat delivered in satisfaction of loans. This is the most wheat the CCC has ever owned, but it is in addition to more than 250,000,000 bu. owned and sold by the corporation at sub-parity prices to livestock feeders, or to millers and distillers for the production of granular flour for alcohol, during the last 16 months.

As in corn, the wheat accumulated during the years of record production and small exports has contributed greatly to the war food and industrial products program. Corporation loan and owned stocks will be much needed this year in view of the relatively small winter wheat crop now about to be harvested. By July, 1944, the corporation may be out of wheat.

• Production Program—Since the acreage of corn cannot be increased further (in view of the requirements for vegetable oils), the only alternative is for larger planted wheat acreage this autumn for 1944 harvest. Prospects now are for a much enlarged production goal next year if not complete elimination of planting restrictions.

The record for cotton is similar. Huge stocks were accumulated under loan and ownership—aggregating more than 11,-600,000 bales through 1939. Critics insisted this cotton would never be marketed in any substantial volume, but a world war intervened; 600,000 bales were exchanged for rubber held by Great Britaín, lend-lease has taken out more than 1,500,000 bales, and sales from owned stocks have totaled more than 1,000,000 bales to satisfy an unprecented domestic wartime mill demand for cotton for military and civilian uses.

• Cotton Moves Out—During the last ten years, the corporation made loans on more than 25,000,000 bales, but the loan and owned stocks now total less than 7,000,000 bales. Mills doubt that the remaining stock can be moved regular commercial channels becament of it is short stape or infer

Glimpse

Cotton, corn, and wheat have he the big three in the nation granary p gram. Loans and purchases cover not 100 additional commodities, but each relatively small volume. Prior to 194 the operations were limited to loans a take-overs; since then the activities has been extended on a broad front of prechase-and-resale operations termed pn supports to encourage increased production of farm commodities.

• Help for Good Friends—Commodi Credit also finances importation of fat oils, sugar, coffee, tea, and the like—puviding markets for war allies and friend neutrals, accumulating stock-piles he and abroad, and taking some losses of these to preserve price ceilings again increased ocean transportation cost. The corporation is buying, for example the unshipped portion of Brazilian or fee quotas and storing the coffee in Brazil for future ship space.

When the war ends, the CCC will undoubtedly find itself in possession and enormous quantities of agricultural commodities here and abroad. Huge stock of sugar, coffee, tea, cotton, and other staples will be available for sale in word.

markets.

Liquidation Problem—The indiscrimnate dumping of these stocks would quickly disrupt world trade and plung every nation into economic chaos. In stead, the CCC officials have indicate that with regard to coffee—and presumably as to other commodities as well every effort will be made to prevent such a postwar catastrophe.

Besides accumulated stocks of commodities of all kinds, considerable expansion will have taken place in the production of vegetable fats and oils in the United States and the Southern Hemisphere, and of substitute products such as grain-base synthetic rubber and hemp. All these will be pressing of

world markets.

• The Postwar Job—The manner in which they are handled internationally-whether it be through the instrumentality of an international commodities bank or otherwise to raise world levels of consumption—will determine the continued expansion of production in the postwar world.

TIME:

PLAC

Mra

risia

Tele

and

whi

and

she

Far

to !

uct

in

too

Busi

POSTWAR AIMS PROJECTED

Last week in Cincinnati, when almost a hundred members of the Producers Council met at the Sherry-Netherlands hotel, the building material industry became the first in the country to attempt to gear its own specialized postwar plans into the over-all program mapped by the Committee for Economic Development, the national planning group headed by Paul Hoffman of



ADVANCE INFORMATION about post-war shopping

TME: 9 o'clock, some morning in the future.

PLACE: Mrs. Jones's living room.

Mrs. Jones flicks a switch on her teletision set and tunes in the Shopping Tele-column of the Air. There she sees and hears the day's best buys, after which she will make up her shopping list and go to market—knowing exactly what she wants.

Far-fetched? Not a bit!

Tomorrow's housewives are going to have an opportunity to see products and packages by television right in their own homes . . . in full color, too! Guided by professional shoppers—yes, and television advertisers—

they'll know just what to look for. Shoppers will be better informed and more discriminating than they are today.

That's only one of the many remarkable changes to look for after the war. Because science is making almost incredible progress toward a new way of living.

Stores will change. And products. And packages— for greater eye appeal and product protection.

We believe Cellophane will play an important part in post-war packaging. What we have learned during eighteen years of peacetime research and what we are learning now in solving many vital wartime packaging problems will help to make this so.

NOTE

We should like to keep you informed of developments as they occur, and will gladly place your name on our mailing list for periodic packaging bulletins.

Write E. I. du Pont de Nemours & Co. (Inc.), Cellophane Division, Wilmington, Delaware.



Cellophane

IN THE WAR OF NERVES, the ether waves play a big part. Friend and enemy fill the air with news and propaganda 24 hours a day. Often the broadcasts are intended for home consumption only, and may reveal strategic inner weaknesses of our foes. Sometimes a furtive signal flashes from a hunted "underground" station in an Axisdominated land.

It is important that our government be kept thoroughly informed regarding all this attack and counter-attack in the air. Yet to listen to and transcribe all the millions of spoken words would require a large corps of expert linguists on the spot all the time.

Right there is where Dictaphone comes in. For Dictaphone can record any language, and remain on duty 24 hours a day!



If you should go into one of the listening posts where foreign broadcasts are being recorded, you would appreciate the need for intense concentration and accuracy. And you would see a battery of Dictaphone recording machines catching every word for future reference and use. Such recordings may be transcribed at the convenience of the translator — as fast or as slowly as he desires.

Other Dictaphone equipment is now giving invaluable service in war plants and government offices — helping to keep mental production flowing — saving time for key men and their secretaries. Never has the ability of the Dictaphone method to handle staggering volumes of work been proved so well.

Meanwhile, in the Dictaphone Research Laboratories, other marvels of electrical voice recording are being readied for use by the armed forces now...and by all business when our enemies have been crushed and we face forward to a new day.

Dictaphone Corporation, 420 Lexington Avenue, New York City.



DICTAPHONE

ACOUSTICORD DICTATING EQUIPMENT

The court DEPARTMENT to the Tendermal Study of Printedness Communities Making of Printedness Making and Assessments to which and Tendermal Study of Printedness Assessments to which and Tendermal Study of Printedness Assessments to which and Tendermal Study of Printedness Assessments and Assessments an

Studebaker Corp., which is studying a problems confronting An arican but ness after the war (BW-) 1.2'43,p2

the east

56,000

More

dding

ects th

vill be

hours.

stem

in be

e. Th

To c

or vita

ODT 1

wholesa

er wee

letely

commo

graphs,

rder (

manufa

net was

· Vital

of deli

pended two, eg

bake go

could 1

will be war ne ators o

As laints

carry a

plan an

of emp

have i

their t

• Ice

mor's

grins, tering

probal

tionar

used t

miles

buses

routes

decke

lems o

ODT

Obvio

will go

Restudie

whetl

and p

e De

ment

other

have If cur

purch

seem

delive

loop

Busin

Despite a vote in favor of such in gration of planning, it remains to seen just how successfully the build materials men will be able to effect meeting of minds with C.E.D. For Wliam B. Benton of the University Chicago, a former adverting agent executive who serves as vice-chairm of C.E.D., made it bluntly clear that the building men wanted to come alon with the committee, it would have the on C.E.D.'s own terms.

Blasting away at the idea that the was any royal road to postwar profit despite rosy prospects for the sale of a many as two million homes a year afte the war, Benton characterized as "motorious" the practices in the construction industry which "force and keep rices up," suggested that they migh warrrant a congressional investigation unless the industry took steps to do it own housecleaning. Other speaker sounding the same theme of consume protection, warned that "monopolistic activities would retard not only the building industry's recovery but als that of the entire country.

Lots of Gas, But-

Army and Navy are taking so much of it that all commercial vehicles in East are ordered to reduce mileage further.

The enormous part gas and oil at playing in plans to invade Europe had come home to 13 eastern states with the impact of Mother Hubbard's cup board on her hungry dog. The gas shortage, which caused the Office of Defense Transportation to slash bus, tan and truck mileage 20% at one (BW-May29'43,p106) and ask for 40% cut by extending T coupons 23 days, confronted the public despite the fact that deliveries to the East are up 20% since January and have never been greater.

• Blame It on the War-Floods in the Midwest interrupted the flow of gase line when railway bridges were washed out, when freight yards swam, when barges bumped into pastures, and when the 24-inch pipeline was damaged. But the floods weren't the main reason for the crisis. The Army and the Naw were at the bottom of it. And that's why pleasure driving and luxury deliveries and frequent bus service won't come back, maybe until August.

Prior to the war, tank cars were moving between 5,000 bbl, and 10,000 bbl, of petroleum products into the East daily. By Dec. 7, 1941, this had grown to 60,000 bbl. During the first too

weeks of May, tank cars were bringing the east 985,000 bbl. a day—of which 356,000 bbl. were earmarked for civilian

uch

For W

ar that me alor

have

at the

prof

ear aft

as "n

constr

nd kee y migh tigation

to do

onsum polistic

only t

ut-

taking

nercia

red to

oil ar

ope h

es with

d's cup

he ga

us, taxi

t one

ons 2

are u

neve

in the

of gaso washed

wher

1 when

ed. But

Nav

that's

deliv

won't

10,000

e East

grows at two More to Come by Barge-Barges were adding 85,000 bbl. a day, while pipelines carried 186,000 bbl. ODT expects that, by August, barge deliveries will be up to 200,000 bbl. every 24 hours. Thus neither the transportation system nor Washington bureaucracy can be blamed for the eastern gas famine. The villain is war.

To conserve what little gas there is for vital farm needs and civilian use, ODT limited the number of retail or wholesale deliveries that may be made per week in 13 eastern states and completely stopped retail deliveries of 15 commodities such as liquor, magazines, ice cream, beer, radios and phonographs, furs, jewelry, and antiques. The order did not apply to deliveries to manufacturing plants unless the product was to be retailed there.

• Vital Deliveries Limited—The number of deliveries permitted per week depended on the commodity—laundry got two, eggs, meats, fruits, vegetables, and bake goods got three, milk got four retail trips. Wholesale trips, in general, could be made oftener. ODT's control will be a check on the certificates of war necessity that all commercial operators of motor vehicles have to possess.

As was inevitable, there were complaints. New York's milkmen refused to carry a double load in the skip-a-day plan and inserted advertisements in the newspapers asserting that "thousands of employees" would be thrown out of work and that, anyway, ODT shouldn't have included under the mileage ban their thousands of horse-drawn wagons.

• Ice Cream Wagons Go—Good Humor's jingling ice cream trucks were swept off the streets, but, with rueful grins, the company was considering scat-

grins, the company was considering scattering its cars on private property where, probably on jacks, they could serve as stationary retail outlets. Manhattan, which used to tell tourists that Broadway is 21 miles long, set out to halt Sunday buses on such long north-and-south mutes and put the Fifth Avenue double deckers in the garage. To meet problems of adjustments, WPB worked with ODT on a priorities list for complaints. Obviously, buses carrying war workers will get special rights.

Results of the present cuts will be studied carefully by ODT to see whether further slashes are necessary—and predictions aren't hopeful.

• Dealers Satisfied—Meanwhile, department stores, liquor dealers, grocers, and other retailers, whose labor problems have been heavy, cooperated cheerfully. If customers carried home most of their purchases, that was a help. There eemed to be no incentive to bootleg deliveries or any reason to hunt for loopholes.



How important that is... especially in these war times. A confidential report, perhaps... thousands of copies prepared in advance for release at a moment's notice... yet the contents must not be known outside your office prior to release.

That's a simple assignment when you own a Davidson*. Just have your secretary type the copy directly on a paper or metal offset plate and give it to your Davidson operator. The job will be done before you know it—clean, sharp copies from start to finish—and only your secretary and your operator need know its contents. That's keeping it confidential.

But that's only one of the many ways your Davidson will serve you. Charts, ruled forms, illustrations, etc., can be drawn directly on these plates and are ready to run in a few minutes. With equal speed and efficiency, your Davidson will reproduce from photographic offset plates, type, electrotypes, and rubber plates. Office forms, multi-color advertising folders, stationery, envelopes, form letters, shipping tags—all can be produced on this remarkable machine, providing a new high in quality at a new low in cost. And only a Davidson can give you all this in one machine.

DAVIDSON MANUFACTURING CORPORATION

1020-60 West Adams Street, Chicago, III.
Agents in principal cities of U. S., Canada, Mexico.

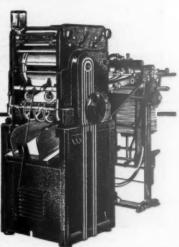


FREE. Write for this booklet. It gives the complete story of the Davidson and includes samples of the work it produces. Ask for your copy today. No obligation.

PRODUCE IT ON A

Davidson

⁶ "Davidson" is a trademark of this and all other products of Davidson Manufacturing Corporation



Business Week o June 5, 1943

General News • 27



Notice how this workman is squinting . . . leaning over in an effort to see. Glare in his eyes is the chief cause.



Same workman . . . same machine. But with improved seeing conditions he is relaxed and comfortable.

These pictures show the meaning of SIGHT FOR VICTORY



Today in thousands of war plants careful attention to seeing conditions is helping to speed production, reduce spoilage, prevent accidents. Many little things can be done to correct lighting faults and make

it easier to see-especially on the night shift.

Let's finish the job NOW!

To help all of the fighting war plants of America get the utmost production benefits from their present lighting, a nation-wide "Sight for Victory" check-up has been planned for the month of June. General Electric is glad to cooperate with other members of the Lighting Industry in this effort to help production men do these two things:

- 1. Check the seeing conditions in their plants.
- 2. Get the most out of present lighting equipment.

Get Your Copy of New Book SIGHT FOR VICTORY

Some day soon a lighting man is planning to call upon you. He will have your copy of a new manual entitled "SIGHT FOR VICTORY" including a time-saving Light-Sight check sheet, published by the National Better Light-Better Sight Bureau.

It tells you clearly and simply how to recognize and correct any lighting bottlenecks in your plant with the minimum use of critical materials or man-power.

This booklet is a valuable production aid. But it will be valuable to you only if you read it and use it. For that reason a lighting man is going to try to call on you and explain it in person. If he fails to reach you, you can still get your copy by phoning your nearest G-E lamp office. Or ask your G-E lamp supplier or local Electric Service Company. General Electric Co., Nela Park, Cleveland, O.



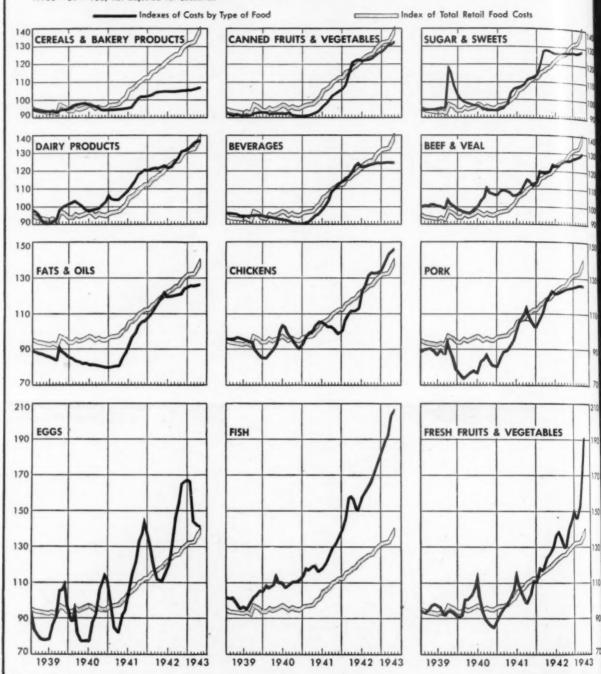
G-E MAZDA LAMPS

GENERAL @ ELECTRIC

Tune in the G-E MAZDA lamp radio program Sundays 10 h. m. [Eastern War Time] N. B. C.

RETAIL FOOD COSTS - KEY INFLATION ISSUE

What the consumer has been paying, as measured by government price investigators (1935-39=100, not adjusted for seasonal)



Because of labor discontent with rising food costs, particularly price-ceiling violations, the Administration is calling for a food-cost rollback as a prerequisite for holding the line on wages. Meanwhile, the Bureau of Labor Statistics is checking its interview methods to see if they actually measure ceiling violations, as BLS be-

lieves (BW-May29'43,p38). Prices of cereals, sugar, beverages, beet, pork, fats, and canned goods were brought under price control in May, 1942 (as was milk). Last October, lids were placed on all dairy products, chickens, eggs, and a few fresh fruits and vegetables. However, most of these, as well as fish, continued to soar in price. And

BLS' own figures show how some controlled toods have risen. The Office of Price Administration now is planning (1) subsidies to cut meat, buttoff and coffee costs by 10%; (2) slashes a wholesalers' margins to reduce first fruits and vegetables by 25% to 40% and (3) consumer enforcement of dialar-and-cents ceilings.

He: U. S. Bureau of Labor Statistics

whet

curat furna

ing

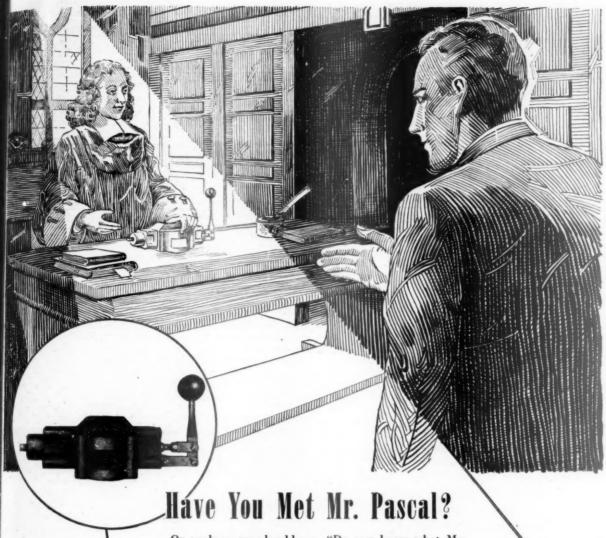
meni perh

valve

show sure thin

plan

Busi



Or perhaps we should say, "Do you know what Mr. Pascal's discovery offers you?"

More than three hundred years ago, Blaise Pascal said, in effect, "Pressure applied at any point on a fluid in a closed vessel is transmitted undiminished to all parts of that vessel." And today, Pascal's law is being translated into some of the most ingenious machinery and equipment in the whole history of industrial development.

Denison oil-hydraulic engineers bring this principle to its most advanced stage . . . in HydrOILics! Their application of fluid power, and exact control of that power, has not only resulted in many new products, but has also brought greater accuracy, speed and efficiency to hundreds of already established production tasks.

More than likely HydrOILies . . . Denison oil-hydraulies . . . offers improvement for your product, or its manufacture. Our engineers will gladly help you find out. Write at once for complete information. The Denison Engineering Company, 1191 Dublin Road, Columbus, Ohio.



Your Problems...



Louder than the HURRICANE

N the old days of wooden ships and iron men, a sea captain's voice had to be louder than the hurricane, to carry over the roar of wind and waves. Today the miracle of radio flashes the spoken word around the world in a fraction of a second, but even radio must contend with problems of interference - natural and man-made static that disrupts communications. Breeze engineers have specialized in the solution of such problems for many years, have pioneered and developed Breeze Radio Ignition Shielding to guard electrical circuits against radiation or absorption of the high-frequency impulses which cause interference. Produced in a wide range of types and sizes, this equipment is designed to meet the requirements of any shielding problem, is in service today on world-wide battlefronts with our armed forces of land, sea, and air.



CORPORATIONS, INC., NEWARK, N. J.

Fewer Sweets

Candy manufacturers have slashed the number of items but are making 13% more of those that remain.

Candy manufacturers attending the wartime conference of the National Confectioners Assn. in Chicago found their convention not the only thing streamlined. Voluntary simplification has cut the number of items in most companies' lines about 75%.

• How They've Slashed-A preconvention survey indicated that the 144 manufacturers reporting had slashed their stock items from 13,400 (including duplications among brands) in 1941 to 3,449 now. The 41 bulk candy makers represented now produce only 1,508 stock items compared with 6,935 two years ago.

Except for 1-lb. units, the only stock items that didn't get the ax were 5¢ candies-thanks to booming sales in post exchanges, ship service stores, and war plants, where both buyer and seller appreciate their convenience. Two years ago 5¢ candy represented 20.3% of the reporting companies' total output; now it's 30.5%.

• In the Swing-Even bulk candy manufacturers joined the swing. Their production of 5¢-candy units is now 16% of their total output, compared with 5.7% in 1941. During the same period, their production of bulk candy dropped from 69% to 54.4%. Nutrition enthusiasts champion 5¢ candy bars because such ingredients as eggs, soy products, nuts, dairy products, and peanuts give most of them a fair balance of proteins, fats, and carbohydrates.

Despite shortages of chocolate, sugar, dairy products, and fats, manufactur sales of confectionery and competition chocolate products were 26% great in March, 1943, than in March, 1942 while production by pounds increased 13%, according to the U. S. Dept. of Commerce. Confectioners boast that they now make a pound of sugar gr 50% further than it did two years ago by such devices as using more fruit and nuts and eliminating candies that take more than their share.

MOI

to giv

manuf

crack

Ratio

good ex concen

dustry

rationii

starts t

nfactur

share t

• Dista

about

permit

The of

selves, or less

tration world-

tion p ing wi

becom

WI to L-qualit

indus

tons

500,0

The e

Ratio

coal a

the 3

· Ab

of st

may

conc

comi

Man

tinue

125:

and than

(Jun

unit

tota

told

OF C

befo

who

gas,

sub

cid

Th and . (tio So lar

Bu

• Government Candy Exempt-Cand sold to the government, including PX and ships' stores, is exempt from quot restrictions on sugar, chocolate, and in some instances, fats. Bulk candy manufacturers have drastically cut those lines that retailers sold as "penny" candy, but such well-established le bars as Tootsie Rolls (made by Sweets Co. of America, Inc.) are still on the market and going strong.

NO HAIR FOR CIVILIANS

A shortage of cattle tail hair, used in parachute pads, saddle packs, and mattresses for the armed forces, has caused WPB to eliminate raw horse mane hair for civilian uses so it can be mixed as a stretcher with cattle hair. The amendment (to M-210) does not apply to imported drawn hair which is used in brush making.

Argentina supplies more than 60% of our imported cattle and horse hair, about ten times our domestic production. Chile, Uruguay, Brazil, and Mex-

ico also are suppliers.

Prices on imports are fixed: cattle tail hair, frigerifico (from big slaughter-houses) 50¢ a pound; campo (from small producers) 44¢ a pound; raw horse mane hair bundled 54¢, classified 36¢, inferior 25¢, combings 22¢, all f.o.b.



Extra nutrition and energy-in candy torm-went out to soldiers and volumteers combating disastrous midwestern floods last week. More than 400 lb. of Baby Ruth, donated by Curtiss Candy, were delivered by Civil Air Patrol.

More Stoves Due

Concentration program to give way to rationing; more manufacturers now will get a crack at the market.

Rationing has provided WPB with a good excuse to kill its biggest and oldest concentration program—in the stove industry (BW—May23'42,p16). When the rationing of heating and cooking stoves starts the latter part of June, more manufacturers will be allowed by WPB to share the market.

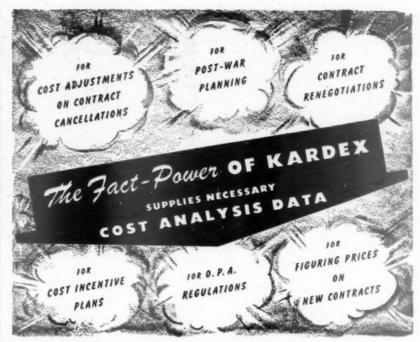
• Distribution Snagged—At present, only about half of the 245 stove makers are permitted to make stoves for civilians. The others are forced to fend for themselves, which they are doing with more or less spotty success. But the concentration program, all in all, has been no world-beater and—like most concentration programs—has the fault of interfering with a nation-wide distribution system. Under rationing, such a fault might become fatal.

im-

WPB is considering an amendment to L-23-c that would lift weight and quality restrictions imposed on the stove industry so that it can utilize the 32,000 tons of steel allocated (good for about 500,000 heating stoves) in a wider area. The emergency program imposed under Ration Order 9 last Dec. 19, rationing coal and wood and oil heating stoves in the 32 eastern states, will be superseded. · About-Face Considered-The scarcity of stoves revealed last autumn is causing WPB to consider an about-face that may end its experiment with the British concentration idea. Stoves were the first commodity subjected to this scheme. Manufacturers who were allowed to continue making stoves numbered about 125; all were located in loose labor areas and had had gross factory sales of less than \$2,000,000 for the base period (June 30, 1940, to June 30, 1941). Each was restricted to 50% of the heating units he had made in the base period, 70% of the cooking units, and 70% of total weight. Other manufacturers were told to seek military contracts for stoves or convert to other war or civilian work before July 13, 1942.

Now it is proposed to ration all stoves whether they burn coal, wood, oil, or gas, to ration them uniformly, and to let any manufacturer make civilian stoves subject only to a limitation as yet undecided, perhaps 50% of the base period. The effect will be to raise output slightly and to scatter production, chiefly in the West.

• Certificate Needed—The tentative rationing plan would give coal and wood areas more stoves for such fuels, the Southwest more gas stoves, New England fewer oil stoves. Anyone who wants



More and more... alert war-time executives are benefiting from the "fact-power" of Kardex Cost Analysis Controls. These simplified summary records provide management with highly important cost data, so vitally necessary under present-day conditions.

And Kardex continues to supply countless war manufacturers with graphic "fact-power" control of costs... helping them to deal successfully with contract renegotiation proceedings... or assuring accurate cost for adjustments on contract cancellations. There are other reasons why complete and efficient cost records are needed: They're a "must" to present cost data under OPA Maximum Price Regulations, for accurately estimating new prime and subcontracts, for comparing efficiency under

proposed "incentive" plans, and for setting standards in connection with effective postwar production plans.

To provide management executives with latest developments in cost accounting systems and procedures, Remington Rand has just prepared an elaborate new portfolio, "Cost Analysis for Profit Control." It contains representative samples of twenty sets of visible Kardex forms, fully described; more than thirty additional loose leaf and machine posting systems; and eighty pages of analytical data on efficient systems used successfully by more than fifty concerns in a variety of operations.



Radar Goes Commercial

Now that the Army and Navy have dropped the shroud of secrecy around radar, the eyes and ears of modern military combat, the big radio manufacturers are losing no time letting the public know their part in its development. For the peacetime possibilities of this remarkable instrument stagger the imagination, and the companies on the ground floor expect to capitalize on it.

• Too Busy to Argue-Responsibility for discovering the science of "radio detecting and ranging" (whence the name radar is derived) is one of those mysteries that nobody is worrying too much about now. All the principal manufacturers are too busy turning out radar equipment for the services to debate the point.

That their advertising and publicity departments are not passing up a bet is evident from the General Electric and Western Electric advertisements (photos) already in wide circulation. In addition, G.E. has plugged radar on the air twice a week since the Army and Navy, late in April, dropped their restriction against utterance of the word; and Westinghouse Electric took to the airwayes last Sunday.

 Reflected Signal—Radar is not new. Westinghouse recalls that one of its scientists in the East Pittsburgh laboratories almost ten years ago observed that radio signals transmitted from the plant to the laboratories a mile away "rebounded" when they struck an automobile passing between the two points. It is no secret that the British "radiolocator," embodying the same principle of reflected ultrahigh-frequency radio waves, enabled the RAF to foil the Luftwaffe's "surprise" raids over England.





Both the Germans and the Japanese have employed some form of radio detection; and the United States was in the war less than 24 hours when its people knew-even if they didn't know the name-that radar had heralded the approach of Japanese planes toward Pearl Harbor. The Westinghouse robot worked, but its human masters failed to heed its warning.

· Beamed with Precision-Ordinary broadcast radio waves radiate from the transmitter in all directions, as ripples in the water when a stone is dropped into a brook. Radar beams its signal with precision in one direction. The signal travels with the speed of light-186,000 miles a second. When it strikes an obstruction, it rebounds to a receiving instrument.

The reflected signal actuates the receiver in such a way that, as a guard against enemy aircraft, the position, direction, and speed of the plane are readily determined. This is an improvement of incalculable value over the outmoded acoustics detector, which caught the roar of approaching engines but was handicapped by the fact that sound travels too slowly-about 700 m.p.h.-to satisfy the demands of modern warfare.

• Navy's Seeing Eye-Radar also has proved its value, according to the services, in naval warfare as the "seeing eye" which penetrates to the invisible target and makes it pos-sible to deliver lethal blows to an unseen enemy.

Westinghouse envisions one peacetime application of radar as an absolute altimeter for aircraft, removing the uncertainties of the sea-level altimeter in flights over uneven ter-

to buy a stove after the plan goes into effect will have to apply to his ration board for a certificate of need. Thee will be limited by a quota system. As plicants qualify by stating that the stop is to be used in essential living or work ing space, that they have no usable stove, that it will replace one wom be yond repair, that they have not disposed of a stove during the past 60 days.

Dealers and wholesalers will register their 1941 sales of new stoves and the present inventories; then they will get an inventory ceiling to limit the number of stoves they may have at any one time, The present limited number of stoves as well as 1941 sales will fix this figure

Canning the Crop

Record high of 275,000 pressure cookers, with ceiling prices imposed, to be available for V-garden produce.

Coincident with another allotment of steel that will bring this year's production of home pressure cookers up to a record high of 275,000, the OPA set dollar-and-cents ceiling prices on three war models. Production of 150,000 began two months ago (BW-Apr.17'43 p68) following about three months' of

complete stoppage of output.

• Into Retail Channels—On the basis of reports from manufacturers, 31,000 cookers are now moving into retail channels. With additional manufacturing capacity coming into operation, it is expected that production in June will be about 55,000, and in July, about 60,000. Thus, by Aug. 1, a total of 146,000 will be ready. The remaining 4,000 and the additional 125,000 should be completed before the fall canning season. Of the total 275,000, about 20,000 will be of 14-qt. capacity, the others of 7-qt. size.

These cookers, with enamel-covered steel bottoms and tinplated steel covers and holding seven glass quart jars, are a modification of previous models using a limited amount of critical materials. The cookers are being rationed through county farm rationing committees.

• Ceiling Prices—OPA price ceilings ap-

ply to three makes now being put on the market by the National Pressure Cooker Co., Eau Claire, Wis.; Burpee Can Sealer Co., Barrington, Ill.; and Wisconsin Aluminum Foundry Co., Manitowoc, Wis. Manufacturer to jobber prices, f.o.b. factory, are \$6.95 for Na-tional, \$7.45 for Wisconsin, and \$7.95 for Burpee. Manufacturer to retailer prices, in quantities of less than 100, are \$9.27, \$9.93, and \$10.60, respectively. Differentially lower prices are fixed for larger quantities.



At Wheeling Steel Corp., batteries of TOCCO machines are really putting the heat on the Axis—heating the ends of pipe to 2100° F. for the spinning of bombs.

One operator, manning two TOCCO machines, each with two inductors, heats tail ends of these "500-pounders" and feeds one to the spinner every 49 seconds.

The heated area of every bomb is uniform. TOCCO's automatic timing assures accurate temperature for uniform forming results.

Yes, it's a fast pace, but the "bombardier" maintains it easily. The push of a button starts each TOCCO station. His "bomb bay" between the four stations of the 7' wide TOCCO machines is compact. His working conditions are safe and free of fire, heat and fumes.

Just as TOCCO is blasting the Axis in this and hundreds of other war factories, so will it crack wide open many of your tough problems in postwar planning. Find out how these dependable, rugged induction heat-treating machines will cut your costs and improve your products.

THE OHIO CRANKSHAFT COMPANY Cleveland, Ohio



HARDENING
ANNEALING
BRAZING
HEATING for
forming and forging

They

usab

om b

umbe

Op ,000 iling able

ment

up to A set three 0 be-7'43, s' of is of ,000 etail ufac-

ion

une

of

ing

ing

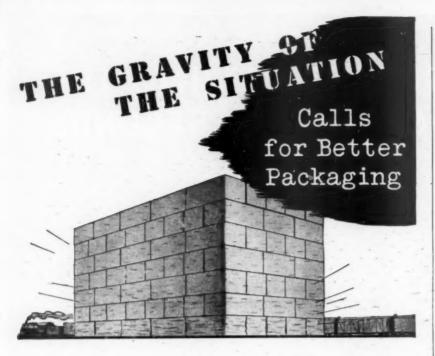
the

ers

gh

er

an



AN AVERACE of five more tons per car . . . that's the war-load being shouldered by the railroads. And that's why "floored" shipping boxes must support many more pounds per package.

One case for better packaging rests on that fact. Crushed shipping boxes mean damaged merchandise. That means waste of materials, manpower, time and shipping space . . . waste that can be greatly curtailed by use of sturdy corrugated boxes engineered to meet the new conditions.

Ask an H & D Package Laboratory to check your shipping boxes. A few pennies more in the right place may enable you to cut losses enormously.

Protect the Produc BETTER SEE WED AUTHORITY ON PACKAGING



Here's a handy source of practical shipping information to help you solve day-to-day shipping problems. It will pay you to take this "refresher-course" in packaging. The cost? A penny post card. Mail your requests to . . .

HINDE & DAUGH EXECUTIVE OFFICES, 4361 DECATUR STREET, SANDUSKY, OHIO FACTORIES in Baltimere

Boston

Buffalo

Chicago

Cleveland

Detroit

Gloucester, N. J.

Hoboken

Kansas City

Lenvir, N. C.

Montreal

Richmond

St. Louis

Sandusky, Ohio

Toronto \$9.93, and \$10.60, f.o.b. seller's cit, except in the far West, where prices are \$9.67, \$10.33, and \$11. Retailer to consumer price ceilings are \$13.90 in National, \$14.90 for Wisconsin, and \$15.90 for Burpee (plus 60¢ in the fa West). All cookers sold at these ceiling prices must carry a 90-day guarantee.

POOLING THE COOKER

Houston (Tex.) Natural Gas Com hopped on the shortage of steam pressure cookers to make a nice grandstand play with its patrons and at the same time to help government food conservation agencies achieve maximum use of available cookers.

The public utility wants to buy 100 18-qt. cookers (\$18 each) and 100 automatic sealers (\$12 each) and lend them without charge for limited periods to housewives in the 19-county area it

In originally limiting 1943 production of pressure cookers (page 36), WPB also restricted sale of them to housewives who would pledge to can 750 qt. or more of Victory garden and truck patch produce. Already Houston Natural Gas has accumulated, under the approving eyes of Dept. of Agriculture officials more than enough applications from individual canners to warrant allocation of the cookers and sealers.

Each family or neighborhood pool will have free use of a cooker and sealer for one to three days, depending on the size of the projected pack. For overtime, a penalty of \$2.50 a day will be charged.

CABS MUST BE SHARED

Ride-sharing plans that sacrifice the privacy of taxicab travel to tire and gasoline conservation have passed from a voluntary to a compulsory basis in Pennsylvania, Under orders of the Public Utility Commission, Pennsylvania's 2,700 cabs must now be shared among passengers traveling in the same general direction-provided the initial patron does not object.

Solving the stickler of just how fares should be apportioned among multiple passengers, P.U.C. regulations require a separate meter reading for each rider. Thus the meter is shut off and restarted

as each person alights.

Theoretically this system cut the cost of, say, a 90¢ trip to only 50¢ for a ride-sharing patron; but operators generally are pleased with the plan. They say standard meters, charging 25¢ for the first 1-mile and 5¢ for each additional 4-mile, pay a "bonus" with each meter start that will iron out any in-

Commending Pennsylvania's plan, the Office of Defense Transportation considers it a trial for nation-wide compulsory ride sharing, if it becomes

necessary.



Tomorrow is destined to be full of extraordinary surprises. Aviation experts tell us the Helicopter will be in everyday use.

This is the amazing airplane that is said will be within reach of the majority. It will handle as easily as a motor car. It ascends and descends vertically—flies backward or sideways as readily as forward. It can take off or land on

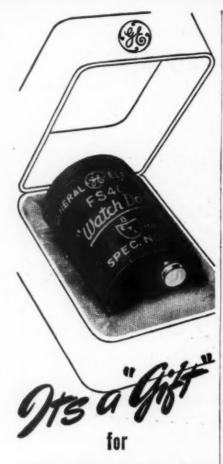
the roof of an average-size building. The large variety of advanced light alloys produced by Bohn will be of great importance in making possible developments of this character.

Remember the name Bohn. Tomorrow when we return to normalcy, Bohn research staffs might be of invaluable service in designing new and better products for your requirements.



ch

43



FLUORESCENT USERS

G-E's new fluorescent starter, the FS-40 "Watch Dog" for 40-watt lamps, is like a gift — something you always wanted but couldn't get.

It will give far longer service* than average; end blinking and flickering; prolong lamp life; protect the ballast and cut maintenance time to a minimum. It is a precision lamp starter and precision lamp stopper designed for more economical, more satisfactory fluorescent lighting.

For detailed data substantiating these claims send the coupon below.

*Under specified test conditions the "Watch Dog" outlasted an average of ten 40-watt lamps — the equivalent of 25,000 hours of lighting service.

Section G631-102 Appliance & Merchandise Dept. General Electric Co. Bridgeport, Conn. Gentlemen: Please send additional information about your new FS-46 "Watch Dog" Starter to:
Name
Сотрану
Address
CityState

WAR BUSINESS CHECKLIST

A digest of new federal rules and regulations affecting priorities and allocations, price control, and transportation.

Transportation

Truck, bus, and taxicab mileage in the eastern gasoline shortage area has been cut 40% by the Office of Defense Transportation (page 26) in a stretch-out action extending from June 30 to July 25, the period during which current T gasoline rations are valid. (General Order ODT 39, for 20% cut.)

A further effort to conserve gasoline in the shortage area is ODT's drastic restriction of all wholesale and retail deliveries, which includes prohibition of retail deliveries of 15 commodities. (Order 17, Amendment 3.)

Fats and Oils

Bakers and manufacturers of baking mixes have been provided, by OPA order, with a method of obtaining, for the six months ending Oct. 1, 1943, rationed fats and oils amounting to 100% of the quantity used in the same period in 1942, as promised earlier (BW-May8'43,p82). When a baker or manufacturer of baking mixes applies for the 70% July-August-September allotment of fats and oils formerly allowed, he may apply on form R-315 for a supplemental 30%. (Ration Order 16, Amendment 29.)

Controlled Materials

The Controlled Materials Plan Division of WPB has issued form CMPL-150A for use by contractors (consumers of controlled materials) in extending allotments of controlled materials to their subcontractors (secondary consumers) producing Class A products, except allotments made under Aircraft Resources Control Office; also forms CMPL-200A and 201A for use by manufacturers in increasing or decreasing allotments of controlled materials to their subcontractors; and forms CMPL-200 and 201 for use by claimant agencies and industry divisions. Production schedules authorized through the use of these forms supersede all previous schedules for the products involved.

Copper Cable

Major cable companies are required by WPB order to ship a definite amount of copper cable into their regular warehouses each month, to forestall any possible shortages in the mining industry. Cables may be withdrawn from storage by the mine's certification of its serial number or the certification of such number by a manufacturer.

Rubber Footwear

Details of the system for rationing men's rubber boots and rubber work shoes have been simplified for consumer, retailer, and manufacturer, and classifications of workers eligible for Type 5 rationed footwear have been increased to include, in addition to the miners and loggers already eligible,

 $\begin{array}{cccc} \textbf{communications} & \textbf{linemen,} & \textbf{construct}, \\ \textbf{workers, oil drillers, quarry} & \textbf{workers, q} \\ \textbf{clay extractors.} & (\textbf{Ration Order } 6A.) \end{array}$

Meats

OPA action has placed some 58 vans meats and edible byproducts of beef, wa lamb, mutton, and pork under spen dollar-and-cents wholesale maximum pass at about the March, 1942, level. (Registron 398.)

5pe

This is

nade arts. he tu

ustor

arts

omp

tand

If y

ou s

re de luctilete

tion 398.)
In another OPA action, affecting commercial eating establishments, special as of beef and yeal for sale by hotel suphouses, packers, and wholesalers to hotel suphouses, packers, and other purveyors of malave been brought under control, not calculate a to price but also as to amount that make been brought under control, not calculate a to price but also as to amount that make be sold. Price levels are dropped 3% of more to buyers of such meats; the amount available to hotels or restaurants for specific three-month periods are limited to 70% of the volume of all meats sold to them for September 15, 1942, to December 15, 1947. The 70% restriction does not apply, how ever, to sales to war procurement agence (Regulation 169, Amendment 12.)

Galvanized Ware

Limitations have been eased to allow in creased production of garbage and ash can to permit production of kerosene and gas line cans, and to exempt buckets for bow wells from Order L-30-a. Production of the full quotas of these items, however will depend upon the supply of steel and able for civilian use. (Order L-30-a, a amended.)

Wire

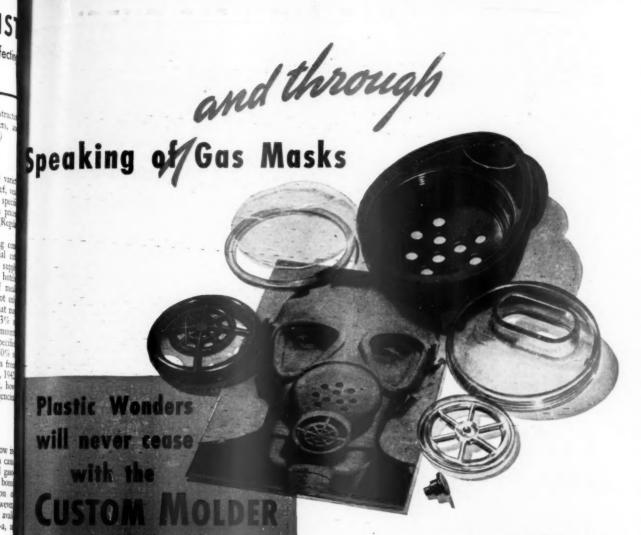
Consumption of wire stitching an stapling for commercial binding of certar printed matter has been limited by a action of WPB that is aimed at pegging the consumption of bookbinder wire at 70% of normal annual use. (Order L-291.)

Lumber for Farmers

To meet lumber needs for essential fam repair and construction, WPB and the War Food Administration have announced an extension by WPB of the AA-2 preference rating for delivery, on presentation of authorized purchase certificates, of a total of 500,000,000 b. ft. of lumber during June, July, August, and September. Farm dwellings are excluded.

New Products

Instead of having to ask OPA's Washington office to set the price of new products, manufacturers are now authorized to set their own, under GMPR, for product not sold by them or by competitors during March, 1942. Self-determined price, arrived at by the use of a simple formula must be reported to the nearest OPA field



This is the angle (speaking) tube of an officer's gas mask, and in six Lumarith plastic parts and two rubber arts. Thin discs of Lumarith sealed airtight within he tube keep gases out but allow passage of sound. The ustom molder's art has produced injection-molded arts of watchlike precision to fit together and afford complete protection... with the impact strength to tand up under battle conditions.

If you are new to plastics, this gas mask tube will give ou some idea of the wonderful things custom molders re doing. Their work is indispensable in speeding production of literally thousands of wartime parts or combete products. You may be converting from metal to

plastics for one or more of the parts you require. Here's how to go about production:

- 1. Tell us what qualities you want in the part—impact strength; resistance to solvents, acids, water; light transmission; dielectric strength, etc. We select the plastic to give desired results.
- 2. We put you in touch with the available custom molders best equipped to mold the piece, by injection, compression, extrusion or transfer.
- 3. The custom molder gives you a quotation.
- 4. We work with the custom molder in furnishing the formulation of the selected Lumarith plastic that suits all factors of the production technique.

Inquiries invited.

LUMARITH Plastics

CELANESE CELLULOID CORPORATION, a division of Celanese Corporation of America, 180 Madison Avenue, New York City. Representatives: Cleveland, Dayton, Philadelphia, Chicago, St. Louis, Detroit, Los Angelee, Washington, D. C. Leominster, Montreal, Toronto, Ottawa.

CELANESE CELLULOID · CORPORATION

-the first name in plastics-

DIVISION OF CELANESE CORPORATION OF AMERICA

Business Week • June 5, 1943



All-fibre Typewriteable Address Cards—like used Elliott Addressing Machines—require no priority. Both are vital workers on today's business front.

Address Cards

are not rationed

Send for your copy of "The Story of a Father and Son"—a fascinating story of inventive genius.

THE ELLIOTT ADDRESSING MACHINE CO.
151 Albany Street, Cambridge, Mass



ADDRESSING MACHINES

... for Social Socurity ... Taxes ... Billing ... Disbursements ... Collections ... Advertising ... Record Control ... Payrolls ... Public Utilities ... Insurance Companies ... Issuing War Bonds.



Mall Tool Co.

Agawam Aircraft Products, Inc. Sag Harbor, N. Y. American Art Metals Co., Atlanta, Ga. Bard-Parker Co., Inc., Danbury, Conn. Bermite Powder Co. Saugus, Calif. Brown Steel Tank Co. Minneapolis, Minn. Chicago Bridge & Iron Co. Seneca, Ill. Gustin-Bacon Mfg. Co. (Two divisions) Hamilton Watch Co. Lancaster, Pa. Hardie-Tynes Mfg. Co Birmingham, Ala. Improved Paper Machinery Corp. Nashua, N. H.

Chicago, Ill. The Maxim Silencer Co. Hartford, Conn. The Metal Specialty Co. Cincinnati, Ohio Modern Plumbing & Heating Duluth, Minn. The Parkersburg Rig & Reel Coffeyville, Kan. Philadelphia Gear Works, Philadelphia, Pa. RCA Laboratories Princeton, N. J. Revere Copper & Brass, Inc. Baltimore, Md. Savannah Machine & Foundry Savannah, Ga.

E. H. Scott Radio Laboratories, Inc.
Chicago, Ill.
J. P. Seeburg Corp.
(Three plants)
Stamford Rolling Mills
Springdale, Conn.
The Tappan Stove Co.
Mansfield, Ohio
Todd-Johnson Dry Docks,
Inc.
New Orleans, La.
The F. W. Wakefield Brass
Co.
Vermilion, Ohio
The Wayne Pump Co.
Fort Wayne, Ind.
The Weicker Transfer & Storage Co.
Denver, Colo.
Williams Brothers Corp.
Balboa, C. Z.

reins abro shou

Th port Clare

vards

The

provi

again

again

· M

tend

oly :

Lloy

oper

ance

judg

that

the

tion

ent

read

som

mea

proc con ena

hon tran

spr

ser

. /

mo

leg

rin

tio

en

to

fer

fu

to

gr

an

B

th

de

N

(Names of winners of the Army-Navy and Maritime Commission awards for excellence in production announced prior to this new list will be found in previous issues of Business Week. The nation's food processing plants are eligible for the Army-Navy Production award. Both War and Navy departments have authorized the Food Distribution Administration to nominate candidates to be considered for the honor by the Army and Navy boards for production awards.)

office within ten days of their determination and are to be the sellers' maximum prices; however, adjustments may be ordered by OPA. This regulation does not apply in cases for which a pricing method has already been fixed. (Amendment 54 to GMPR.)

Box Lumber

To meet an increasing demand for lumber needed by manufacturers of boxes used in shipping war supplies, the prices for Sitka spruce box lumber have been raised \$2.00 per thousand b. ft. in each of the three box-lumber grades, in an OPA action narrowing the differential between Sitka spruce boards and box lumber prices by \$1.11. This will result in a saving to the manufacturers, who, because of the shortage of box lumber, have been compelled to buy the Sitka spruce boards. (Regulation 290, Amendment 3.)

Palm Oil

The War Food Administration has announced that palm oil that was sold by manufacturers to the Commodity Credit Corp. from inventory stocks may now be repurchased in amounts equivalent to the original sales, provided that the oil is used by the manufacturers in their own

operations and in accordance with other fats and oils regulations.

Used Machines

A new classification—Class B—has been established to cover slightly used, almost new industrial sewing machines, machines, and parts to facilitate the pricing of a considerable amount of secondhand machinery that the Procurement Division of the Treatury Dept. wishes to sell to war industriat. This action permits a price that is 75% of the ceiling on new industrial sewing machines for those in Class B, instead of the 55% allowed for used machines "as is" (BW—May22'43,p47). Prices for other secondhand machinery are determined similarly (Regulation 375, Amendment 1, for used industrial sewing machines; Regulation 136, Order 48, for used machines.)

Dyes

An exemption from the order covering reducing of used garments and household furnishings permits commercial dyers to procure all the dyestuffs and organic particles of the purpose, so as to conserve materials that would otherwise to discarded. The exemption applies also to dyes used for food, drug, and cosmetic colors. (Order M-103, as amended.)

INSURANCE

Air Premium Row

Proponents of Lea bill say reinsurance pool has its roots abroad, that postwar operation should be controlled here.

The Civil Aeronautics Board will report in a few weeks on a bill by Rep. Clarence Lea proposing government yardstick insurance for air transport. The bill would empower the board to provide air insurance and reinsurance against loss due to war and reinsurance against ordinary air risk.

S

Docks

Brass

r &

e in leek. Both

othe

143

• Many Charges Made—Sponsors contend that there is a reinsurance monopoly in this country with its roots in Lloyds of London; that American air operators cannot bargain for reinsurance; that rates are based on arbitrary judgment and on some horse-trading; that small companies cannot get in on the business; and that military information is syphoned abroad under the present system.

Mere introduction of the bill has already brought new rate proposals by some underwriters. Sponsors of the measure expect that enactment would prod the scrapping stock and mutual companies into cooperation that will enable them to write air reinsurance at home. (Big postwar airplanes and costly transocean cargoes, with heavy liability and crash risks, will call for ever greater spreading of risks and pooling of reserves.)

• A Postwar Program—The Lea bill is modeled on merchant marine war risk legislation of 1940 and 1942. The marine law has a clause providing termination within six months after the war ends; Lea's bill, H. R. 1992, is pointed toward postwar operations.

Its perpetuity is one reason why a few airline operators want to study it further before supporting it. They want to make sure that this insurance program does not mean the attachment of any more federal wires to their industry. But there is no concerted opposition to the bill either in air transport or in underwriter circles. Some insurance companies are lobbying energetically against Lea's proposal while others are talking it up.

• For Domestic Control—Nobody attaches blame to the British. The aim is simply to get reinsurance of air transport under home control. Neither does any one want to agitate U. S.-British air relations, and, of course, no one wants to be quoted.

The Air Transport Assn. is said to be writing a report on the bill, but no

Supplying Dependable. Economical ELECTRIC POWER



for Industry



PUBLISHER

Famous metropolitan newspaper in Los Angeles, Cal. Three horizontal "UNIVER-SAL UNAFLOW" Steam Engines, driving 572-kv.a., A-C generators. Exhaust steam used for building heat and air conditioning.

Installed in 1934.



OFFICE BLDG.

Prominent building in Philadelphia, Pa. Three horizontal "UNIV ER-SAL UNAFLOW" Steam Engines, driving 250-kw. D-C generators. Installed in 1922.



DEPT. STORE

Large store in Cincinnati, O. One vertical, three horizontal "UNIVERSAL UNA-FLOW" Steam Engines, with D-C generators. One 300-kw. (1916); two 250-kw. (1927); one 800-kw. (1937). Exhaust steam used for building heat and air conditioning.

SKINNER "UNIVERSAL UNAFLOW" STEAM ENGINES

POR three-quarters of a century the Skinner Engine Company has been building steam engines exclusively. The performance of Skinner Engines has been so outstanding that they have achieved the reputation of being "the most economical steam engines ever built."

Skinner "Universal Unaflow" Steam Engines, horizontal or multi-cylinder vertical, drive generators that furnish electricity for light and power to many of the nation's best known hotels, hospitals, department stores, office buildings and diversified industrial and institutional plants. By generating their own electric current instead of buying it from the local utility companies, these owners have saved millions of dollars in power costs. Other Skinner Engines drive compressors, pumps and blowers for refrigeration and air conditioning installations.

Tomorrow profits will come from economy. As in the past, many efficient power users will find that in no other department of their business can savings be effected equal to those made by using Skinner "Universal Unaflow" Steam Engines to generate power, utilizing the exhaust steam for heating and processing purposes.

Dependability and permanently maintained economy are inherent characteristics of Skinner Poppet-Valve Unaflow Steam Engines, and are largely responsible for the fact that more than 25% of all orders received are repeat orders. This is not only a high tribute, but also is testimony of complete satisfaction.

Although you may have a seemingly low rate per kilowatt-bour for purchased power, it will pay you to investigate, for postwar planning, how much lower your cost will be for power generated by Skinner Engines.

Our production facilities, at present, are devoted entirely to building Skinner Unaflow Steam Engines for the war program.

INVEST TODAY IN BONDS FOR VICTORY



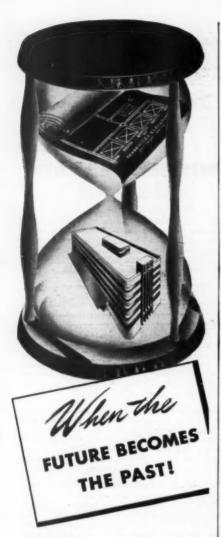
Our Seventy Fifth Anniversary

BAKERY



Nationally-known bakery in Buffalo, N. Y. Five horizontal "UNIVER SAL UNAFLOW" Steam Engines: one 167-hp., driving ice machine; four with A-C generators. Three are 250-kv.a., one 312-kv.a. Installed in 1922, '24, '28. This company has purchased 25" "UNIVERSAL UNAFLOW" Engines.

SKINNER ENGINE COMPANY "H HARD ERIE, PA.



New buildings and remodeling projects now being planned will some day be completed and in use. When that time arrives, the materials and equipment in these buildings are important. Where freight or passenger elevator equipment is required, use Montgomery. Proof of the fact that they deliver is found in Montgomery's sales record. During 1941, a typical year, 72% of all the Montgomery Elevators installed were sold to previously satisfied customers. Many of these firms have used Montgomery Equipment over a period of 30 years. Investigate Montgomery Elevators for use where vertical transportation is required. Complete "Elevator Planning Service" available on request.



E. J. HOME OFFICE - MOLINE, ILLINOIS

Stanch Offices and Agentuin Principal Cities

statement has been made. Some members of the association say the report will be strongly favorable. The House Interstate & Foreign Commerce Committee is much interested, but no hearings are planned before fall.

At present, according to an insurance spokesman, two insurance company pools are handling the air transport business, which includes fixed base contract operators (charters, irregular trips) as well as certificated scheduled carriers. The airlines themselves have considered two pool plans of their own; the mutual companies have proposed a pool, and so has Braniff Airways.

Insurance Test

Fire companies argue in antitrust action that federal authorities are infringing state regulatory rights.

The Southeastern Underwriters Assn. and 196 fire insurance company members launched their effort in U. S. District Court in Atlanta last week to nullify indictments charging them with conspiracy to violate the Sherman Antitrust Act. Their attack was on the grounds that the indictments violate states' rights because "fire insurance is not commerce."

• Pleading is Weighed—Following the hearing on a demurrer brought by the defendants, Judge E. Marvin Underwood took the pleading under advisement. The case is the first action by the federal government against fire insurance companies. Indictments were returned last November.

Defense attorneys Dan MacDougald of Atlanta and John T. Cahill of New York in their arguments declared the action a direct attack by the Antitrust Division on state regulation of insurance. "Free competition rates are unstable and therefore discriminatory," they said, "and state-sponsored restraint of competition in fire insurance cannot be enjoined or prosecuted."

• D. of J. Attitude—Frank H. Elmore, Jr., and Manuel M. Gorman, attorneys for the Justice Dept., based their arguments on the definition of commerce, which they contended applied to exchange of any type of commodity. "If the states cannot control business done by insurance companies out of their boundaries, and neither is the federal government allowed to control this business, a vacuum will be created. No business should be so completely unregulated," the federal attorneys said.

Elmore insisted the case was not a "test case or cause celebre," but only the beginning of federal investigations and indictments of all combinations of the insurance business. Many other

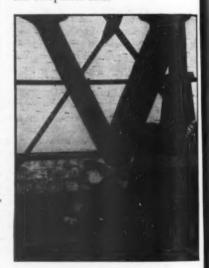
legal minds differ with him on the point, however, and even other federal attorneys speaking "off the record" in this definitely is a test case.

• All the Major Concerns—The 1% companies involved do business in all parts of the United States, in Canada Scotland, and England, and they include virtually all the larger fire insurance companies. The indictment charges the association and its affiliates with conspiring to "fix and maintain arbitrary and noncompetitive premium rates on fire insurance" sold in Georgia, Florida North Carolina, South Carolina, and Virginia.

Apparently having no connection with the court case, but an interesting coing dence nevertheless, is the fact that the Southeastern Underwriters Assn., on the eve of the demurrer hearing, announced a reduction of fire insurance rates for owners of certain dwellings in five southern states.

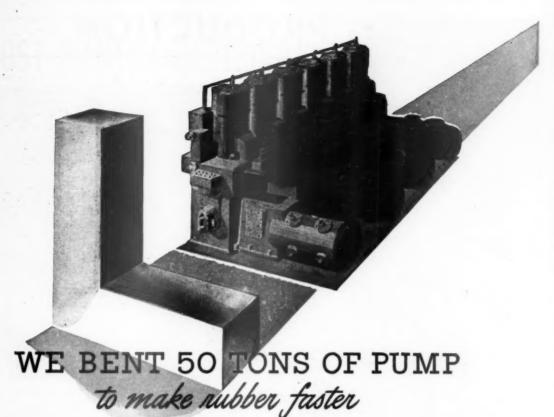
Principal rate change is elimination of charges for "dwelling-to-dwelling exposure." For instance, in Atlanta, if a home is located within 25 feet of its neighbor, it has been subject to a charge for such hazard. That charge is discon-

The reduction in the five-state area was made in the face of a general increase in fire losses throughout the nation, simply because the losses on this class of dwelling in the Southeast have shown a decline in the last several year, the companies said.



V FOR STEVENS

Victory symbol to soldiers attending radio school at Chicago is the V in the big signboard still hanging from the 3,500-room Stevens Hotel now owned and occupied by the Army (BW—Jan. 2'43,p18). Behind the V, a corporal prepares to fire the retreat cannon for the daily sundown ceremony across the way in Grant Park.





on the r feder

he 1% s in all Canada hey ine insu charge es with rbitrary ates of Florida a, and thw ac Coinc nat the on the uncer tes for south nation ng exa, if a of its

charge isconarea al ine nathis have

years,

al

10

SS

Much of the synthetic rubber program is based on a liquid with the queer sounding name, butadiene.

You get it out of oil. At several stages in the process gases must be compressed, large quantities of them.

Everybody knows what a compressor is. It's a kind of pump. An engine drives a piston which squeezes gas down to its size. For years, everybody thought the way to increase the capacity of a compressor was to make all the parts bigger, stretch them out farther along the floor, and who cares about space or weight.

Not so our Clark engineers.

They said, "why not make this into this

So was born the Clark Angle Compressor. That sound engineering idea makes half the weight of metal do the same work in half the space, because for one thing, it is possible to run such a compressor at higher speeds.

Small wonder that the synthetic rubber program, expanding under metal stringency, turned largely to Clark Angle Compressors.

Clark is one of our seven Dresser Industries. Independently managed, but strengthened by Dresser resources and many other group facilities, Clark has become a leader in its field of gasengine and Diesel-driven compressors.

There is a point to all this. Clark is greater because it is a Dresser Industry. All Dresser Industries are greater because of Clark. The same holds for each of our independently managed, but wellteamed units. It is a type of management which has already made major contribution to war production. It may well be a management pattern which will appeal to planners who seek special facilities and sure-footed co-operation in manufacturing and marketing areas in the future.

DRESSER MANUFACTURING CO., BRADFORD, PA. Pipe Couplings; Fittings; Repair Devices

THE DRYANT MEATER CO., CLEVELAND, C.

CLARK BROS. CO., INC., OLEAN, N. Y. VAN DER BORST CORP. OF AMERICA, CLEVELAND, O.; OLEAN, N. Y. Gas and Diesel Engines; Gas and Air Compressors Porus-Krome Processing of Engine Cylinders

PACIFIC PUMP WORKS, NUNTINGTON PARK, CAL. Pumps: Hot Oil; Centrifugal; Deep Well; Special BOYAIRD & SEYFANG MFG. CO., DRADFORD, PA. Oil Well Supplies and Accessories

BRESSER MANUFACTURING COMPANY, LTB., TOPONTO, ONT., CANADA Affiliate of Dresser Mig. Co., Broadford, Pa.



Up there alone, hobnobbing with the scudding clouds in the white-flecked azure, what's in the back of his mind, while he scans an ocean monotonously empty?

There are long and glamorless stretches to patrolling. Plenty of time to think—in a detached way that doesn't distract his watchful eyes from sea or instrument panel. . . . Plenty of time to see a sunlit street, a campus path, a breath-catching moment of bashful ardor under a genial moon. Whatever the image, it stands against the background of coming home to opportunity, to work, to fulfillment.

And that's what it will be if production is pushed, if paydays are bond-days and if spare hours are devoted to plans for supplying post-war markets—and thereby a job and home for this boy. It's bis due.

There'll be a hunger for the goods we've done without, but they'll not be identical goods. They'll be improved or entirely new. Made, quite probably, with machines that have yet to be built—machines that are typical of American ingenuity—perhaps even like some of those developed and made here at FIDBLITY and described in "Machines and Mechanisms."

Write for this illuminating book.

Designers and Builders of Intricate, Automatic Precision Machines

32 YEARS' EXPERIENCE

FIDELITY MACHINE

3908-18 FRANKFORD AVENUE PHILADELPHIA, PA.

PRODUCTION

Rubber is Easing

Restriction on tire sales won't be lifted, but there will be enough rubber for the services and civilians in key jobs.

Rubber Director William M. Jeffers probably will go down in United States history as the man who piloted a successful transition of basic rubber production from the jungle plantation to the industrial plant. Jeffers didn't make the grade alone, but he mounted to the cabin before the engine had a full head of steam and kept a strong hand on the throttle.

• First-hand Inspection—Evidence that the transition will be completed successfully this year has been piling up: Jeffers' progress report No. 3; first-hand inspection stories from Charleston, W. Va., by reporters who were conducted through the government's new 90,000-ton integrated rubber plant; agreement of top-flight technicians that quality of the new rubber is satisfactory and that manufacturing problems are being solved.

This doesn't mean there will be unrestricted sale of tires this year, or next. Rationing of tires seems certain to continue through 1944. It does mean that enough rubber will be produced this year and next to give the Army and

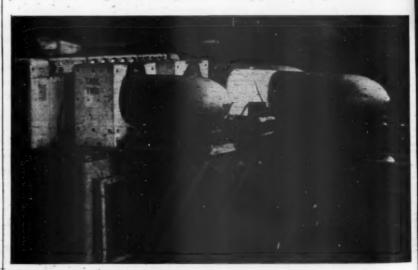
Navy a chance to go back to the use of rubber in every instance where its use is held desirable, and enough rubber to dole out first-quality automobile tires to civilians in essential occupations who can convince ration boards that new tires are needed.

• Plenty of Used Rubber—There's plenty of used rubber to keep nonessential cars rolling on retreads. The supply of used rubber is estimated officially as equal to two years' supply (BW—Jan.23'43,pl7), but trade estimates place it higher.

Jeffers' report places the number of new tires available to civilians this year at 12,000,000, including 7,000,000 left. overs from rubber imported before Pead Harbor and 5,000,000 from new synthetics, and next year, there will be 30,000,000, all from synthetic. These may be enough if ration boards are realistic about allowances. Recent complaints have come from war boom areas that new tire supplies will cover only 70% of ration board allotments.

• Clearing Up—Confusion that arose from conflicting programs, such as aviation gasoline and escort vessels, from conflicting personalities, and from conflicting statements of government officials and rubber, chemical, and oil companies gradually is clearing up.

Four months ago the outlook was that our rubber stocks, by August or September, might fall below the 100,000-ton level held necessary to maintain steady operation of the fabricating plants. Today, with the Baruch



BOMBS IN THE WORKS

In two automatic operations, Wheeling Steel now turns out aerial bomb casings in a fraction of the time formerly required. Induction-heated by

Ohio Crankshaft's Tocco process, 500-lb. casings roll from the inductor (above) at 2,000 F. and go by conveyor to automatic spinners for end-shaping. Both nose and tail are heated and shaped within 14 minutes.

THE MOST WANTON DESTRUCTION IN HISTORY



HERETOFORE, WHEN FIRE STRUCK, it was a calamity to an individual business enterprise. Even with insurance protection for plant and materials, experience has proved that loss of records, customers and employees has crippled a burned-out business in at least two out of every five instances.

But today, when fire destroys a plant or vital war materials so sorely needed by our fighting forces, it is little less than a national calamity. Where such destruction occurs in spite of the fact that it could bave been prevented, it is literally the most wanton destruction in our history.

Fire CAN Be Controlled! The one sure way to control fire is at its source, when it starts...with Automatic

Sprinklers! Grinnell Sprinkler Systems detect and check fires automatically, night or day, before major damage can occur.

The Cost in materials is LOW One Grinnell Sprinkler Head protects 100 square feet of building space. Installed, it needs only about 50 pounds of pipe, fittings and valves... yet it can save tons of structural steel and other critical materials. This comparatively small expenditure of materials can provide the 24-hour-a-day protection against fire which will keep your plant producing and helping to win the war instead of becoming a charred heap – useless when so desperately needed.

Get in touch with Grinnell today, before fire strikes!

Grinnell Campany stands ready to protect your werehouse or plant against fire. Experienced engineers at nearby offices are ready to help you. Call them. Grinnell Company, Inc., Executive Offices, Providence, R. I. Branch Offices in principal cities.



GRINNELL
AUTOMATIC SPRINKLERS

For Production Protection

ig.

43



What else can the war do to your food products?

Well, to face the problem squarely, it might put your favorite brand out of business—permanently.

That is precisely what can happen to food products which do not fit into the requirements of the National Nutrition Program.

The future is dark for foods which do not deliver maximum nutritional values.

If your product is a logical one for vitamin enrichment or fortification, now is the time to get going.

And if you are or will be in the market for vitamin A, get the facts about what we believe to be the finest vitamin A concentrate obtainable.

Distilled Vitamin A Esters* is the name. This concentrate of vitamin A in the natural Ester form is produced by molecular distillation in high vacuum, a process which gives the resulting concentrate several unique advantages.

Distilled Vitamin A Concentrate in the natural Ester form is scientifically uniform in quality, high in potency, two to ten times more stable in heat, light and air than any other commercial concentrate we have tested. Exceptionally bland, this vitamin A does not impart taste or odor to foods or pharmaceuticals.

Write for our new illustrated brochure, "The Story of Vitamin A Esters." And get complete information and performance data for your technical men.

*Protected by U.S. product patent No. 2,205,925 and more than 50 process patents

DISTILLATION PRODUCTS, INC.

755 RIDGE ROAD WEST, ROCHESTER, NEW YORK

Jointly owned by EASTMAN KODAK CO. and GENERAL MILLS, INC.
les Agent: Special Commodities Division, General Mills, Inc., Minneapolis, Minn.

"Headquarters for Oil-Soluble-Vitamins and High-Vacuum Equipment"

program cut back to 79% of the mended 1,074,000-ton capacity, a estimated that this year will end, 142,000 tons on hand and new synth capacity of 850,000 tons a year. A supplies, crude and synthetic, for year 1943 are estimated at 308,000 tons do year least supplies are estimated at 308,000 tons

The problems of the new synthe now are quality and adaptability. A as tires are concerned, these prob have been solved, with the excepti heavy-duty tires, which still reabout 30% natural rubber to pu overheating in service. Although le reported only 54,000 tons of this 308,000 tons of new supplies would natural rubber, it seems certain there's enough natural left over in stockpile for compounding with thetic where necessary. Trade run denied in official quarters, have s quantity of Far East rubber had be coming to the United States by we Japan and Russia (BW-Feb.6'43) Jeffers' latest estimates of this year's ber supply also include 218,000 ton GR-S (Buna-S), 17,000 tons of G (Hycar Chemical's Hycar and butadiene-acrylonitrile type synthet 11,000 tons of butyl rubber (GR-I), 29,000 tons of Neoprene (GR-M), • Two Operations-Formal opening the plant at Institute, W. Va., den

strated that the government rubbern gram is moving along under full sta. The plant consists of two operation butadiene and styrene production us management of Carbide & Carb. Chemicals Corp., and polymerization these two chemicals to make GR-Sn ber, under management of United Sta Rubber Co.

Butadiene production began first months ago. From Institute, Carbide Carbon has been shipping butadiene polymerization plants far and as Now, each of the four 20,000-ton but diene units, using grain alcohol as tock, is in operation. One of two 12,50 ton styrene units is operating, the object of the compact of the compac

The works cost an estimated \$56,000. Construction was begun in Apr 1942. Plant output is rated sufficient to make 16,000,000 passenger car in a year. To produce this quantity natural rubber would require an immement of \$80,000,000 in a 270,000 applantation (24,000,000 trees) and syears' time to start producing. The plantation labor force would be 90,000 as against 1,250 at Institute.

Butadiene from petroleum also la reached the large-scale production stal Standard Oil Co. of Louisiana, opena its Baton Rouge refineries to official a spection this week, displayed better the designed output—about 100 tons a displayed better the designed output—ab

rake a Look at TOMORROW-Today!



QUIET AND OFTEN UNSEEN BUT ALWAYS VITAL!



Not only on machine tools, but on many widely varied applications, the electric motor may be hidden from sight. Yet, because the machine performance depends to such a large extent upon the motor and its characteristics, it is one of the most vital parts.

In thousands of applications, particularly on machine tools, Century Motors are the unseen, dependable servants of the machine operators. They'll run quietly, continuously, and with an unusual freedom from vibration that contributes much to precision workmanship.

Today, under the rigid demands of Wartime production, Century is developing even finer motors than we have made in over forty years of manufacturing—motors that correctly match the demands of the machine and which are properly protected against surrounding conditions as well.

Remember the importance of the motor, even though unseen — and it will pay you to think of Century in your postwar planning.

CENTURY ELECTRIC CO., 1806 Pine St., St. Louis, Mo. Offices and Stock Points in Principal Cities

1/6 to 600 horsepower.

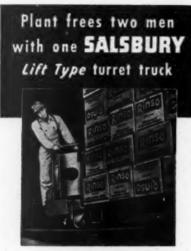
One of the Largest EXCLUSIVE Motor and Generator Manufacturers in the World

end 1

Prob

with

O tons
of GR
ad of
athetic
R-I), a
M).
ening
demober p



... AND MOVES SAME LOADS TWICE AS FASTI

Here are the facts: At California Warehouse Company, Los Angeles, three men using a hand lift truck move a 2,000-lb. skid load at 2 miles per hour from warehouse up steep ramp into truck. One man with a Salsbury Lift Type Turret Truck moves the same load from warehouse to truck at speeds from 4 to 5 miles per hour. Result: 6624% saving in labor cost per load, 100% faster load handling... Salsbury Lift, Cargo or Tractor Type Turret Trucks can solve your load-handling problems. Write Dept. T-41 for literature and prices.

Manufactured and Distributed by
NUTTING TRUCK AND CASTER COMPANY

Faribault, Minnesota
Under license of Salsbury Corporation, Los Angeles, Calif.

Save Man-Power in Every Department with

APECO PHOTOCOPY

SAVES TIME

IN COPYING LETTERS

BLUEPRINTS

WORK ORDERS SPECIFICATIONS

Here is a machine that multiplies Man-Power—releasing men, women and equipment for other work. Speeds up production! Saves valuable hours now spent on copying and tracing by making photo-exact copies at small expense—in your own place of business, without delays.

Makes Photo-Exact Copies of Anything Written, Printed, Drawn or Photographed

APeCO makes copies up to 18'x22'—

1 to 100 copies or more. No chance for error? No need for proofreading! Legally acceptable.

FOLDPROOF OPERATION!
STURDY CONSTRUCTION!
With our simple instructions, any inexperienced boy or girl can produce photo-exact copies of letters, blueprints, drawings, etc. No skill or darkroom needed.

PROMPT DELIVERY—Wite for FREE folder new! Without obligation, ask



AMERICAN PHOTOCOPY EQUIPMENT COMPANY 2849 N Chirk Street Dept B-7 Chicago Illinois

"Miracle" Drug

About to emerge from the laboratory, penicillin is believed to out-sulfa the sulfas without ill effects on patients.

Penicillin, the new "miracle" drug which is reported to out-sulfa the sulfa compounds, is expected to move from the pilot plant and clinical laboratory into actual production and therapeutic use in the near future. Laboratory, production, and clinical research on the product are being spurred by the military which wants the drug as soon as possible for military use. Under government sponsorship, a score of pharmaceutical companies are competing for the scientific and commercial honors that will go to the first to lick mass production.

• A British Discovery—Penicillin was first discovered in London in 1929, but its therapeutic possibilities were not reported in British journals until 1940 and 1941. In 1941, the Rockefeller Foundation sponsored a visit to the U. S. of the noted British penicillin authority, Professor H. W. Florey.

As a result, work on the drug was started at the Dept. of Agriculture's northern regional laboratory at Peoria, Ill., under Drs. R. D. Coghill and A. J. Moyer. The department's interest in the matter stems from the fact that penicillin is produced by the metabolism of a certain type of mold that can live off farm products.

Two Groups in Charge—The commercial race to produce penicillin also

started in the fall of 1941 but gove ment men say that production is a in the pilot plant stage. Government direction of penicillin research handled jointly by a committee on me cal research of the Office of Sciens Research & Development, headed A. N. Richards, and the Division Medical Sciences of the National Research Council.

bunc

and

adde

toco

tant

. A

port

resu

adm

ever

sick

mira

man

of t

tion

the

exp

"ne

cilli

farr

193

all

ma

1150

nal

sul

fan

. (

19

me

sul

sul

Su

to

wie

too

git

di

ha

th

du

m

st

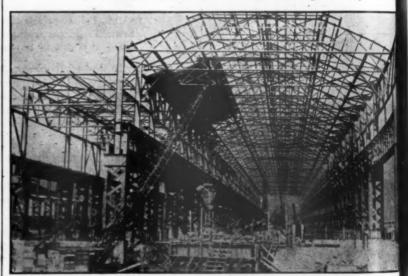
tl

According to a recent statement Richards on the progress of penicli research, the difficulties that confine mass production arise "chiefly from a fact that in the metabolism of the month only very minute amounts of penicli are formed and those only after a of growth."

of growth."

• Preliminary Tests—Clinical resear was started in June, 1942, and is magoing on in a score of selected hapitals. In addition, the Surgeon General of the Army's Brigham City (Utahospital on soldiers returning from hapitals areas. Other clinical studies wounds will be started in ten addition. Army hospitals, while studies will be started on the effect of the drug of veneral diseases in six other Army hapitals. The Navy also is working a clinical use of the drug.

In a statement published in the Jonal of the American Medical Ass which generally is conservative on a thereapeutic claims, Richards said the 300 patients have been treated with the drug, and thus far the results have used all early promises. He said the is good reason to believe that penicilis "far superior" to all the sulfonamid in the treatment of staphylococcus fections, including osteomyelitis, a



PRODUCTION NOW

Even before its rolling mill is completed (above), a steel plant is producing needed aircraft and ship metals. Republic Steel's expansion of its South Chicago works will not be in ished before midsummer, but two a nine electric furnaces already are in operation. When completed, the project will be entirely integrated-from ore docks to finishing mills.

buncles of the lip and face, pneumonia, and infected wounds and burns. He added that it is effective against streptococcus, gonorrhea, and other infections, certain types of which are resistant to the sulfas.

ut gove

on is

overnm

search

e on me

Scient

readed

ivision

penial confr from t the me

penicil fter de

resear

d is no ted ha on Ga

(Utilifrom 6

udies dition

will | drug o

my ho

Ass

on a

aid the

ave m

d the

enicil

Cus

10 a

re i

943

• Advantages Claimed-Of equal importance is the fact that no untoward results have yet been noticed from the administration of this powerful drug, even in cases where the patient is very sick. Although they possess almost miraculous curative powers against many hitherto fatal infections, almost all of the sulfas cause some type of reaction in the patient. Because of this. the Food & Drug Administration is expected to give speedy clearance to 'new drug" applications covering peni-

Sulfanilamide, the first of the sulfa family, was introduced in the U.S. in 1937. Originally, it was used against all types of infections but now is primarily the drug of choice only for local use. While it is still used against internal infections, later members of the sulfa family have largely replaced sulfanilamide.

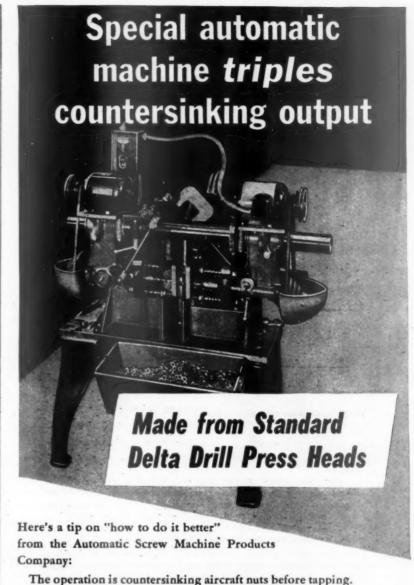
• Others in the Family-Introduced in 1939, sulfapyridine was the second member of the family. The two major sulfas now in use are sulfathiazole and sulfadiazine both introduced in 1941. Sulfadiazine is reputed to be the least toxic of all the sulfas, but both are widely used for staphylococcus and streptococcus infections, pneumonia, meningitis, and venereal diseases. Sulfaguanidine and sulfasuxidine, both of which have unusual therapeutic properties in the treatment of dysentery, were introduced in 1941. Both have had wide usage in tropical and North African theaters of war.

The least known of the sulfa family is sulamyd, which is used in the treatment of the urinary tract. Another, sulfamerazine, is still in the research stage but probably will be marketed in the near future. In addition to these basic members of the sulfa family, there are hundreds of additional derivatives, compounds, forms, and combinations.

PRESSED METAL DRIVE

Last week, the new Pressed Metal Institute began its first membership drive. Ever since its initial meeting in March of this year, when some 60 representatives of sheet and strip metal fabricators, rolling mills, and metal press builders banded together, it has been in the throes of organization.

Final incorporation papers have now been signed, national headquarters established at 19 W. 44th St., New York City, constitution and objectives set forth in a colorful brochure. Next step is to bring the membership up to approximately 500 of the 1,000 or more factors in the metal stamping field.



The rate for this job on a hand operated machine was 1500 pieces per hour. This special Delta machine's gross output is 4800 pieces per hour and has been in continuous operation for four months, eight to sixteen hours a day. The company reports that the Delta Drill Press Heads have performed perfectly with no signs of wear or breakdowns.

Perhaps there are spots in your plant where a little ingenuity with Delta low-cost machines can save the day! Write for further information.

Send for Catalog giving full details and prices on the full line of Delta Drill Presses, Grinders, Band Saws, Abrasive Finishing Machines and other Delta low-cost machine tools. Get in touch with your nearest Delta Industrial Distributor or send coupon below. THE DELTA MANUFACTURING COMPANY 905 E. Viennu Ave., Milwoukee, Wis.
Please send me latest Delta Catalog giving full details and prices on your full line of low-cost machine tools. MILWAUKEE



The higher speed, greater range and heavier fire power of our fighting ships is gained by using every inch and every ounce to best advantage. That's why the speed, range and power of Clayton Flash Type Boilers fitted so well into fifteen different types of navy vessels... where they are at battle stations 24 hours per day furnishing steam for heating, cooking, distilling, sterilizing and hot water.

Speed – these Clayton Steam Generators come to full working pressure in 5 minutes. Range – they automatically and instantly adjust themselves from full load to heating only a few gallons of water. Power-15 to 100 H.P. with less than a quarter the weight and one third the space of conventional marine boilers.

These sturdy steam-generators have a long record of leadership in hundreds of peace time industries — applications to which they will

return when the armed forces no longer require the entire Clayton output.

Other Clayton products serving the Armed Forces are Kerrick Kleaners ... Kerrick Cleaning Kompounds... Clayton Hydraulic Dynamometers... Clayton Boring Bar Holders... and Clayton Hydraulic Liquid Control Volves. Each is a specialized product—developed through endless pursuit of new ways, new materials, new principles to accomplish their jobs faster, cheaper and better.



The comparative size of a Clayton flash type steam generator and a conventional boiler of the same rating is clearly shown above.

MANUFACTURING CO. CALIFORNIA

NEW PRODUCTS

Steel Identifier

Several working installations of the new Identometer are supplying evidence that inexperienced operators can be readily trained to classify "unknown pieces" or lots of steel (or any other ferrous alloy) according to: (1) heats-identical analysis; (2) grades—similar analysis; (3) types—dissimilar analysis with dissimilar structures; (5) composite types—clad metals, shear knives, etc.



The instrument, which is about the size of a cabinet radio and operates on the same principle as a thermocouple, can be wheeled to any place in a plant or laboratory where there is an alternating current supply. A known reference sample is affixed to one of two clamps, and the unknown specimen to the other. When the two pieces of steel are brought into contact and a current run through them to heat them slightly, they act as a thermocouple, producing a measurable electrical current if dissimilar, none if similar, and showing either fact on a dial.

Tests can be made in just a few seconds, whether on pieces in a pile or on parts that have been assembled into a structure—making it possible for the first time to be sure that a particular steel has been used in a specified location. The manufacturer of the Identometer is American Tubular Elevator Co., Pittsburgh; the national distributor is Dravo Corp., Pittsburgh.

Dual Diagonal

Long before Pearl Harbor, the Visible Index Corp., 535 Fifth Ave., New York, brought out the Visirecord system of filing, wherein a diagonal margin at



Try laughing these off

(Actual Cases from U. S. F. & G. files)



Case No. 11-A-654

Coffee Scalds Yachtsman

Precious as coffee is, the pot held too much to suit the midwest executive . . . for when the boat rolled, the coffee spilled, severely burning him. Fortunately he carried accident insurance with U.S.F.&G. and received \$737.00 for medical expenses and time lost from work. Would you be similarly compensated?



Case No. 35-B-198

Hard-Working Burglars

Determined indeed were the burglars who climbed to the winery's first floor roof, forced a window, cracked the safe, and ripped out the "burglar-proof" chest inside. Their loot . . . over \$600. But thanks to burglary insurance with U.S.F. &G., the owners were spared this loss. What about your place of business, your home?



Case No. 21-G-1297

Wind Shatters Glass

The big blow in the little Pennsylvania town might have been a severe financial blow to the main street shopkeeper . . . for it shattered his plate glass display window. But the shopkeeper had been wise enough to insure his window through U.S.F.&G. and so was spared any loss. Are your glass windows and doors insured?

Consult your insurance agent or broker

affiliate:

FIDELITY & GUARANTY FIRE CORPORATION

BALTIMORE, MD.

as you would your doctor or lawyer

HOME OFFICES:

lence 1 be

r feridennaly. (4) with

le,

10

ng

nd

i-



for WILD HEAT

Tough Problem + Stainless Steel = Product Improvement

Hot, corrosive, exhaust gas that blasts from the auxiliary motor of a giant bomber must be harnessed! For it is this motor that turns out electric current to start the engines, run ventilating equipment, keep the radio on the job and operate the landing gear. And this is a perfect job for Stainless Steel because, in addition to providing the exhaust collector ring with heat resistance, Stainless gives corrosion resistance plus strength with light weight—and freedom from the effects of vibration.

These same advantages of Carpenter Stainless Steel can be given to your new and re-designed products. Your nearby Carpenter representative can help your designers and production engineers pack extra usefulness and longer life into your products, by helping them pick the best type of Stainless for the job. He will bring to your men a wealth of practical experience gained from working with users of Stainless. And he will keep you in close touch with our Metallurgical Department.

By combining your design-engineering experience with Carpenter's knowledge of Stainless, you can cut fabricating time and get the most out of every pound of Stainless. Let us help you on your tough design-engineering and production problems—both today's and tomorrow's.

THE CARPENTER STEEL COMPANY, READING, PA.

Carpenter

Strength
Rigidity
Reading
Resistance
Corrosion Resistance
Corrosion Resistance
Longer Product Life
St. Louis, Indianapolis, New York, Philadelphia

the right-hand top corner of each card and an ingenious method of overlapping cards in a drawer or other container give to a vertical system of filing the quick get-at-ability of a "visible system." In inventory control, for example, such a system renders the name of a given material or part instantly visible on the di-

th critic

Three ten thus

mblers

screw those e for e

printe Il not tiating and (Flamm lvents mish, ves, or ve a nonexplomulai 701 Pa

nerely

nds, 1

ater, 1

nd the

lew

Also

eir in

ess fie ort in

ss alti

e the

Elect

ishes-

ffered

lavsvi

Theri

ected

nost 1

Con

eons

ghtw

nade 1

Drang

ules 1

Mel

verti

incli

is sa the

bein inco

Busi



agonal margin. Equally visible on the exposed righthand edge of a card is the balance of the item available in stock.

But since the war, and especially since WPB put its Controlled Materials Plan into operation, it is necessary to have a third item of inventory information instantly visible on a card—the amount of allocated material available to a given contract. Hence, Visible Index has developed the Dual Diagonal Margin which makes visible two classes of information on the corner of a card in addition to that on a card's edge. Though it was invented primarily for CMP purposes, it appears to be a natural for certain other types of record keeping and filing, notably in personnel work.

Semi-Plastic Closures

If you look closely at the illustration, you will see that Semi-Plastic Closures,



new products of the recently organized Closure Corp., Room 5215, 405 Lexington Ave., New York, are really rings of plastic which secure heavy paperboard disks to the tops of tumblers or other glass containers. Since the rings are molded in cone form, with two to ten

ferent sizes in a single mold, they save the critical mold steel and the amount plastic represented by the disks.

Three adaptations of the closure have en thus far developed: (1) slip-on, or ction-fit, type for containers like ablers with a plain tapered finish; screw type for threaded containers e those used for cosmetics; (3) snap-on the for containers with a "beaded" rimade marks and other information can printed on the disks. Closure Corp. If not manufacture but is already netating licenses with plastic molders.

and Cleaner

card

ping

give

uick

ma-

e di-

the

ck.

ice

an

a

in-

of

en

el-

ch

n

to

it

In ch a

Flammable and sometimes explosive livents normally used to remove paint, mish, lacquer, enamel, synthetic adheres, or airplane dopes from the hands we a new rival in Den-Tex. It is a new mexplosive, nontoxic cleansing cream mulated by Dennis Chemical Co., 701 Papin St., St. Louis, which is to be merely worked into paint or lacquer on ands, which then readily rinses off with ater, leaving the pores open and clean, of the skin soft."

New Products Briefs

Also reported this week, not only for heir interest to certain designated busiess fields, but also for their possible imort in the postwar planning of more or as allied fields and business in general, the the following:

Electrical—Ten different insulating varishes—some new, some old—are being flered by the Sterling Varnish Co., laysville, Pa., under the trade name Thermobonds." From them can be sected suitable insulating mediums for nost types of electrical coils.

Communications—Military carrier pieons are being equipped with new ghtweight Plastic Message Capsules, hade by Lusteroid Container Co., South brange, N. J., to replace aluminum capules used in the World War.

Metal-Working—Parts as small as 1/32 n. long and 0.005 in, diameter, and as arge as 2% in. long and 1/16 in. diameter, an be machined with speed and accuacy on the Gorton 16-A Precision Autonatic Screw Machine, new product of he George Gorton Machine Co., Raine, Wis. Because it is a modernized evelopment of the Petermann P-7 Swiss utomatic, all tooling, cams, and attachments of the two machines are interchangeable. . . . Universal Vise & Tool Co., Parma, Mich., is bringing out the new "Roll-In" Metal Cutting Bandsaw for contour, trim, and cutoff work. Although its continuous saw blade cuts vertically, it feeds into the work on an inclined track by gravity. Blade pressure s said to be automatically regulated by the texture and hardness of the metal being cut-hence blade breakage due to incorrect pressure is eliminated.



Do you believe music can help relieve your manpower problem? Will you accept a free copy of "Music and Manpower," and read the remarkable results of music broadcast in other U. S. plants?

Just off the press, this down-to-earth study contains graphic case-history proof! Tells how music, scientifically selected for fatigue relief, lessens absenteeism and accidents—reduces "rejects" and spoilage—helps speed vital war supplies faster to the men at the fighting fronts!



Let the book speak for itself! You'll get facts, not theory. You'll get the complete picture of music in industry, especially as applied to war production. Every executive, every production manager should have these remarkable facts and figures for analysis. Send coupon for free copy today!



BY THE MAKERS OF "FLEXIFONE" INTERCOMMUNICATION

Licensed under U. S. Patento of American Telephone & Telegraph Co. and Western Electric Co., Incorporate

	OPERADIO
	Plant-Broadcasting
PIN TO YOUR LETTERHEAD	OPERADIO MFO. CO., DEPT. B-15, ST. CHARLES, ILLINOIS Please send free copy of new booklet "Music and Manpower" Have representative survey our needs and estimate cost Name.
	Address

BRAZIL'S COASTAL LIFELINE

When submarine warfare in the Caribbean and South Atlantic stopped regular ship runs between highly developed southern Brazil and the more backward regions in the north, the Amazon Valley and Fortaleza, Natal, and Recife along "the bulge" were threatened with disastrous shortages of everything from salt to gasolineall of them normally imported by sea. Goaded by this crisis and by mounting determination to industrialize the country, Brazilian authorities decided to fill the gaps in the long-projected coastal railroad. With the aid of United States priorities on rails, and by commandeering masses of laborers, the gaps are rapidly being closed.

THE WAR-AND BUSINESS ABROA

Brazil's Industry

Republic makes stern bid to join manufacturing leaders in years to come; U. S. capital shows growing interest.

SAO PAULO, Brazil-Brazil's desperate effort to meet wartime shortages of normally imported manufactured goods by setting up hundreds of small domestic factories is beginning to get a boost from private business in the United States. This marks the country as an ultimate contender for a place among the great industrial powers.

among the great industrial powers.

• Steel Next Year—Products manufactured in Brazil as a result of the new industrialization drive range from paper to iodine, and from shells to caustic soda (BW—Mar.6'43,p46). The new steel plant at Volta Redonda (BW—May3'41,p66) will be turning out finished products by the end of 1944. Copper imports from Chile have been boosted to keep the small electrical industry operating at capacity. The freight car shortage has given a boost to local shops which now produce cars made entirely from local materials.

The annual value of finished goods production has jumped from \$170,000,000 at the end of the last war, and \$1,000,000,000 in 1938, to almost \$2,-

000,000,000 in 1942.

• U. S. Capital Takes Part—Despite a trend toward full government control of certain industries (like petroleum) and strong regulation of others (like coal and copper mining), private capital from the United States is beginning to show an active interest in Brazil's industrial future, and representatives of some of the largest companies north of the Rio Grande have been in Brazil recently exploring manufacturing opportunities.

A patent deal is already signed providing for the building of Wright Whirlwind engines in the government-owned National Motor Factory.

Monsanto Chemical Co. is building a factory at Bahia to process theobromine from cocoa beans (BW-Apr.24 '43,p74). Monsanto formerly bought cocoa residues from plants in Europe which processed the cocoa bean for its oil content.

• U. S. Competition?—The caustic soda plant, which is soon to be built in Brazil with equipment on which the United States has granted special processing and export priorities, will be pushed by local capitalists, though one of the biggest chemical producers in

the United States has shown and est in the market and is believed banking interests in São Paulo in planning the purchase of a number small local chemical companies may branch, through them, into caustic soda business.

Pepsi-Cola, which entered the Macan market with a small new born plant, recently transferred from United States, apparently is consider a similar venture in Brazil where it compete with the already-establish Coca-Cola distribution setup.

• Glassplant Proposed—Though on have already been placed in the United States by two or three Brazilian aware manufacturers for flat glass relequipment, Libbey-Owens-Ford, aming to rumors here, may ultimately ter the market with a large new plant

Some of the biggest mining intering the United States have been ening nickel, chrome, copper, lead, a zinc deposits in Brazil, but until the present restrictions on foreign cap participation in mineral development are eased, they are likely to make move to exploit these resources on commercial scale. The nickel a chrome mines of Goyaz state (previous worked on a small scale by joint Japanese-German interests) are particular under scrutiny.

• Reynolds Interested—Representation of the Reynolds Metal Co. have plored the bauxite deposits near a Paulo and the plant facilities alrainstalled (except for special machine by local interests and may collaborate the production of aluminum (BW)

Apr.3'43,p98).

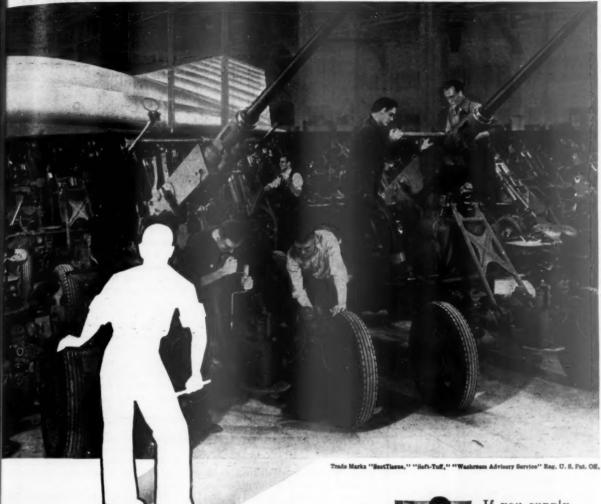
Most serious drawbacks to the ent of big and progressive foreign intensare the strongly nationalistic attitution of the government toward many minand heavy industry projects, the strangent labor laws, the question of a adequate labor supply, and the proble of transferring profits.

National Oil Development—Brazil

• National Oil Development—Brazi attitude toward the exploitation of sits soil resources was bluntly demonstrate when foreign concessions to development now is completely in thands of the National Petroleum Completely in the National

Since 1939, oil drilling and production have been under the direct supervision of the council, with about? Brazilian firms engaged in the busing under government supervision and so eral government projects under with United States engineers in chargestill, no commercially important with





THE MISSING MAN

Washroom planning can help you reduce sickness

EVERY DAY, sickness keeps a million American workers off the job. Every year, it costs your company a week's production.

RO

n an in elieved ulo to number anies into the Mi botti from onsider ere it istablici stablici

ie Un ian gh iss rol d, aco nately inter n expead, inti п сар elopm make es on kel a reviou it Japa ticula entativ nave e

ear § alrea chine

labor

(BV

e ent

nteres

attitu

mini

e stri

roble

Brazil

of sul

strate

levelo

essur in th

Cour

n ead

ut

Over half of this enormous loss is due to the common cold and its complications—to "catching" illnesses that spread from one worker to another... from hand to mouth.

Sanitary, well-planned washrooms can help reduce this loss. For soap, hot water and individual tissue towels are effective checks to the spread of contagions.

When designing washrooms, consult an architect. He will plan for maximum hygiene, easy maintenance and a bright, cheerful appearance.

THE SCOTT WASHROOM ADVISORY SERVICE

For a complete check-up on your washroom facilities, call on the Scott Washroom Advisory Service. It may be able to suggest many improvements.



If you supply ScotTissue Towels, it will help you prevent their waste...so that other companies can share the supply. For ex-

ample, our educational material reminds workers that one Scot-Tissue Towel dries completely.

Actually, a single "Soft-Tuff" ScotTissue Towel will absorb twice the water left on hands. And it has ten times the rub strength of previous ScotTissue Towels, though soft as ever.

Write for our Health Is Ammunition, Too booklet and posters—proven aids in setting up a sound health program.

Scott Paper Co., Chester, Pa.

SCOTTISSUE TOWELS



CHECK LIST

McGRAW-HILL

PRACTICAL BUSINESS MANUALS



Now ready - eight volumes in a special McGraw - Hill publishing program.

Here is a series of books especially planned to help business men with boiled-down, simple treatment of their problems.

These are primers of the func-tional activities of business— priced low—written for fast easy reading—valuable for the smaller business owner-manager as well as the specialized worker and executive in larger concerns.

- ☐ I. METHODS OF SALES PROMOTION \$2.25
- By Kenneth S. Howard
- 2. HOW TO MAKE COLLECTIONS \$1.75
- By Dexter Tomlin
- 3. HOW TO WRITE BETTER BUSINESS LETTERS, \$2.00
- By E. A. Buckley
- · 4. HOW TO SELL BY MAIL, \$2.00
- By E. A. Buckley
- 5. HOW TO FILE BUSINESS PAPERS AND RECORDS, \$2.00
- By Allen Chaffee
- 6. HOW TO USE YOUR BANK, \$2.00 By William H. Kniffin
- 7. HOW TO GET PUBLICITY, \$2.00 By Milton Wright
- 8. HOW TO WRITE ADVERTISEMENTS, \$2.00
- By Kenneth S. Howard

McGRAW-HILL BOOK CO. 330 W. 42nd St. New York, N. Y. for 10 days' examination on approval. In 10 days I will pay for books, plus few ents postage, or return them post paid. (Postage paid on orders accompanied by remittance.)

Examine any of these books 10 days on approval

3 7

Name			 	 				 									
Address			 	 					 								
City and	St	ate.	 	 * 1				 		 	 						
Position	****		 	 	*	*	 								**		
Company	****	***	 	 			 			 	.I	BV	V.	-6	-5	-4	13

have been found, and there is little prospect that the country will ever cover more than a small portion of its needs from domestic output.

· Government Also in Coal-Coal mining is completely under government control with a national law requiring 20% admixture of the Brazilian product with all imported coal rigidly enforced

Typical of government participation in other mining projects is the Companhia Brasileira de Cobre, a copper mining company in the southernmost province of Rio Grande do Sul. The federal government, in a determined effort to produce a domestic supply of copper, controls one-third of the shares in the company and has steadily pushed modernization of the mines and ore reduction plant.

The Ministry of War operates its own sulphuric acid works, and the São Paulo state government operates two of the country's three lead plants.

Despite these restrictions and the rigid immigration laws which shut out desirable artisans who may wish to move to South America after the war, Brazillike many other Latin-American countries-is bidding high for technicians from the United States and making attractive offers, with suitable guarantees, for financial and managerial participation in hundreds of new industries.

Made to Measure

ones, neer

Valley

Five he in of 25,

tion o

the th

tional

yon d units

slight

rency units,

per l utiliz

now

P

Truji

pro

Per

the

is b

the

nev

pov

wes

tric

to

vel

cer

of Bus

Co

Peruvian discovery magnesium deposits may pro vide another power outlet to new hydroelectric developmen

LIMA, PERU-The discovery, on a few weeks ago, of extensive magn sium rock deposits in the river valle above Trujillo and Chimbote (ma north of Lima is expected to tie in wi the big new hydroelectric power dent opment now being constructed in h Canyon del Pato by the Peruvian go ernment with funds made available b the Export-Import Bank.

• Heavily Mineralized-The extent the magnesium rock discoveries is far unknown, as only superficial survey have been completed, but geologists ported long ago that all of this region heavily mineralized. Included in the natural wealth are vast coal deposits nor being developed for the export train and for the projected establishment an iron and steel industry on Chimbo Bay (BW-Sep.26'42,p96).

Work on the Canyon del Pato hydro electric project, located on the San River which flows into the Pacific ju north of Chimbote Bay, was initiated

Achievements in Chemicals

As a result of the blockade and the domestic shortage of all kinds of basic supplies, Brazil is beginning to manufacture hundreds of new products locally. Some of these businesses are operating on such a small scale, and so uneconomically, they will almost certainly not survive in postwar competition. Others, by their own initiative or through the protection of the Albumen

government, will become a permanent part of the production machine in Brazil.

How far this mushroom development has gone can best be measured by the progress of a single industry-chemicals. This aggressive industry now produces-in many cases only since the wartime loss of imported supplies-the following products:

Aluminum-potassium sulphate. Aluminum sulphate Ametine camphor sulphonate Amyl acetate Amyl alcohol Aniline oil Arsenic Barium carbonate Barium nitrate Barium sulfuret Barium sulphate Benzidrine sulphate Bismuth Bismuth nitrate neutral Borax Boric acid Butyl acetate Butyl alcohol Caffeine Calcium carbonate alcium glycerophosphate (liquid 50%) Calcium Calcium lactophosphate Caustic potash Chrome alumen

Corrosive sublimate (mer-curic ehloride)

Cream of tartar

Emetine Ester gum Ethyl acetate Ethyl iodide Ethylic ester of cottonseed Eucalyptus, oil Glycerin Glycerophosphate of

Crystallized menthol

magnesium Gold-sodium thiosulphate Hemoglobin .

Iodine and iodides Iron protoxalate Isopropyl alcohol

Lactic acid Lactose Lead nitrate

Magnesium carbonate Magnesium chlorate Manganese sulphate Mercuric cyanide
Mercuric iodide
Mercuric oxide (red)
Mercuric oxide (yellow)
Methyl iodide

Naphthalene

Nerve Glue Nitrate benzol Orange oil

Peppermint Potassium bichromate Potassium carbonate Potassium glycerophosphate Potassium sodium tartrate Potassium sulphate Putty

Shellac (not a good product) Silver nitrate Sodium bicarbonate Sodium bisulfite (in powder) Sodium cacodylate Sodium camphor sulphonate Sodium formiate Sodium glycerophosphate Sodium methyl arsenate Sodium sulfuret Sparteine camphor sulphonate Synthetic essence of Nisouli Synthetic resins

Tetraiodophonolphthaleir sodium salt Theobromine Tung oil Turpentine

Vitamin K

ast year under the direction of Barton ones, an American hydroelectric engineer who for the previous nine years had been associated with the Tennessee Valley Authority.

ure ry d

y pro

let fo

pmen

ry, on magne valle

in with

ian goo lable b

tent o

gists negion in the sits non trade t

ent

op-

red

stry

nly

Five Units—The project provides for he installation of five generating units of 25,000 kw. each. Cost of the installation of the first two units was estimated at \$4,000,000 (prior to Pearl Harbor); the third and fourth would cost an additional \$1,875,000.

Cost of producing power in the Canyon del Pato with the installation of two units (50,000 kw.) is estimated at slightly more than 0.001¢ (U. S. currency) per kilowatt-hour. With four units, this would be reduced to 0.00077¢ per kilowatt-hour, if total capacity is utilized. The construction schedule now calls for the completion of the

Chimbote Huorós o ARRA SHOWN Cerro de Posco

Two important hydroelectric power projects are under construction in Peru. One—Autisha dam to augment the electric power supply for Lima—is being built a short distance above the capital in the Andes and, with a new power plant, will raise electric power generating capacity to 91,000 hp. The other—in Canyon del Pato, west of Chimbote—will provide electric power for the new steel industry to be built at Chimbote, and for developing new magnesium reserves recently discovered in river valleys west of both Trujillo and Chimbote.



MILLING MACHINES



"HOMES DEPARTMENT? THIRD FLOOR, MADAM"

More than probable in the post-war distribution of homes—department and furniture stores will handle the selling.

Currently, Homasote Company is exhibiting scale models of Homasote Precision-Built Homes in leading department stores throughout the country. Hundreds of people come to these exhibits—join Homasote's Own-Your-Own-Home Club—pledging themselves to start saving the down payment new, for a new home after war-time restrictions are lifted.

Department stores—with their concentration of traffic—are a natural outlet for houses. But the product must have established value—the standards of construction must be consistent... And that means engineered housing.



Engineered housing

—as developed in Homasote Precision-Built Construction—produces stronger, more efficient homes for less money.

Homasote decentralizes prefabrication, result of seven years' research at a cost of \$300,000 ... Notice "decentralized"—Homasote reduces transportation costs by locating fabricating plants throughout the country. Thus it works with established local factors in building ... Homasote Precision-Built Construction builds homes of any size, any style, anywhere.



Proved in \$6,000,000 of pre-war, architect-designed private homes and \$30,000,000 of government war housing, Homasote Precision-Built Construction is the key to vast, post-emergency markets—low-cost housing, employee housing, realty developments in all price classes . . . For more details, write HOMASOTE COMPANY, Trenton, N. J.





BURMA'S NEW ROAD

Although offensives to blast the Japanese out of Burma probably cannot begin soon, a new road across India's frontier already carries food and munitions (above) for the push. Trucks and jeeps battle back-breaking obstacles (below) to supply secret bases along the highway driven through jungles and across mountains. The road, a tribute to British-American skill and equipment, was built in less than six months by Army engineers.



initial installation by the end of 1945.

• Power Potential—Engineers estimate that the total power potentiality of the Santa River exceeds 500,000 kw. If the new magnesium rock discoveries prove to be as valuable as expected, the extraction of magnesium and other metals that may be found in commercial quantities will create an immediate market for surplus power.

AIDING RUBBER DRIVE

Principal allies of Rubber Reserve Co. in the hectic search for new natural rubber are American businesses already operating in the potential rubber areas.

William Wrigley, Jr., Co., with a notable achievement in rubber-gathering

behind it and an expanded program ahead of it, claims top rank among these cooperating businesses, although Goodyear Tire & Rubber Co. collects a large amount of rubber in Costa Rica.

During the last five months of 1942, Wrigley brought back 620 tons of rubber and in 1943 expects to deliver 2,500 tons. Tapped from Cer.tral American trees, the rubber is Castilla, similar to Hevea, the Far Eastern (and Brazilian) type, but not as highly regarded.

type, but not as highly regarded.
Rubber collection is one of the Wrigley company's war contributions and, according to the management, is more patriotic than remunerative.

Rubber Reserve Co., a Reconstruction Finance Corp. subsidiary, flies much of the rubber to the U.S.

But



STAINLESS STEEL

STAINLESS steel is playing an important role in Allied war production. Our aircraft, warships and motorized units utilize this strategic material. Production of chemicals, explosives and synthetic rubber is facilitated by use of stainless steel equipment. In many other fields, where high tensile strength and resistance to heat or corrosion are demanded, stainless steel is specified.

As America's largest and only exclusive producer of stainless steel, Rustless is filling a substantial portion of these wartime needs. Rustless is doing more. Through use of its unique process, Rustless is conserving America's limited resources of chromium and electrolytic nickel. This is important, because the stainless steel industry is the largest consumer of low-carbon ferrochrome and electrolytic nickel, both of which are among the most critical of strategic materials.

The Rustless Process is based on the use of sub-grade chrome ore and stainless steel scrap, of which there are adequate supplies in this country. More than 65% of the nickel used by Rustless is obtained from scrap, while only 3% of its chromium comes from low-carbon ferrochrome. Thus Rustless is not only meeting wartime demands, but through its conservation efforts is also assisting greatly in meeting the critical supply problem of these two metals.

These advantages of the Rustless Process will be of equal benefit in meeting a greatly expanded use of stainless steel after the war. When that time comes, Rustless will be ready with a fund of new technical knowledge and specialized experience to devote to the problems of peace.

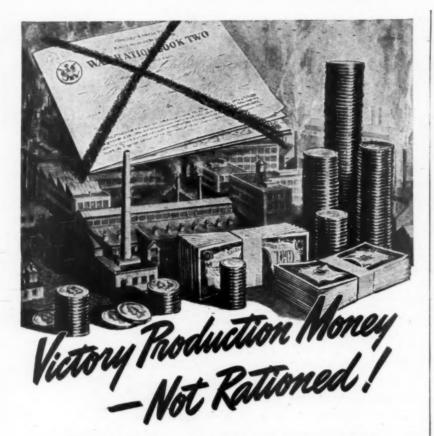
RUSTLESS IRON AND STEEL CORPORATION, BALTIMORE, MD.

RUSTLESS CORROSION AND HEAT-RESISTING STAINLESS STEELS



C-

3



Money is the "sinews of war." It is one of the unrationed necessities for concerns engaged in producing military equipment and supplies.

We put no ceiling on the amount of capital we can make available for commercial financing, if it can help victory production.

There are probably many concerns that could qualify for government contracts...but they haven't sufficient financing to guarantee fulfillment.

There are probably many companies which could increase production on current orders . . . if they had more working capital to meet larger pay rolls, buy more raw materials or add to plant equipment.

In many ways, Commercial Credit financing can help companies which are producing for military and essential civilian needs . . . don't let any routine limitations imposed by your present financing connections retard your effort.

If you have the manufacturing and sales potentials, we can engineer a plan of financing and supply the funds you need on terms that will enable you to utilize them profitably.

In confidence, and without any obligation, we will analyze your problems and work out a practical solution. Just give us the opportunity to prove it.

Commercial Credit Company Baltimore

Subsidiaries: New York Chicago San Francisco Los Angeles Portland, Ore.

CAPITAL AND SURPLUS MORE THAN \$65,000,000

Interesting color charts of ARMY, NAVY and MARINE insignia free on request.

CANADA

Threat to Prices

With fewer goods to buy and money bulging their pockets, Canadians will provide a critical test for the anti-inflation line.

OTTAWA—Pressure of an additional \$400,000,000 or more of spending money in the pockets of Canadians that year over last, against a consumer goods supply that is smaller by almost \$400,000,000 than in 1942, threatens to break Canada's price ceiling structure. In the face of this extra pressure, survival of the Dominion's price control policy depends on control of farm prices and wages. It is the same problem that Washington is trying to solve, but Canada's efforts to stem the inflation tide have been so much more successful to date that each new move now is watched with particular interest.

• Creeping Up—Here is the picture of

In 1939, individual Canadians had an income of \$4,300,000,000, spent \$150,000,000 for taxes, and so had a disposable balance of \$4,150,000,000 of which they spent \$3,500,000,000 on goods and services. This left \$650,000,

the rising income threat against the Dominion's anti-inflation defenses:

In 1942, they had an income of \$6,850,000,000, put \$600,000,000 into taxes, and so had a disposable balance of \$6,250,000,000, of which \$4,450,000,000 went for goods and services. This left \$1,800,000,000 to be absorbed in other ways.

In 1943, their total income will sort to nearly \$7,600,000,000 and their taxes to \$950,000,000, leaving an expendable balance of \$6,650,000,000. Since not more than \$4,100,000,000 of goods and services is likely to be available, the inflation gap is dangerously widened, and no plan has yet been devised to cope with it.

• Alarmed by Wage Increases—The price control administration, paying producer and retailer subsidies to hold down the cost-of-living index and prevent periodic upping of the cost-of-living wage bonus (BW—Jul.19'41,p14), is alarmed by recent grants of wage increases by war labor boards on applications for adjustments. Between the establishment of wage ceilings in 1941 and the end of February, 1943, the labor boards dealt with 21,451 wage or bonus applications affecting 1,567,063 workers and granted 89% of them for an increase in payroll disbursements of \$79,237,000 a year. This increase does not include upping of wages through

Bu



Here Currier and Ives, the famous portrayers of American life of the past century, depict one of the great eras of railroading—the achievement of rail transportation from East to West—the opening up of new lands and unexploited resources.

WARS have a way of ending old eras and starting new ones. Following the Peace of 1865, the nation was first united from coast to coast by bands of steel (May 10, 1869). Geographically, America has no new frontiers. Technically we have many. The curtain already has been drawn back on one element of the new era that surely will follow the present conflict—a new tool for the improvement of national transportation—General

Motors locomotives.

o buy

ockets,

critical

ne.

ditional

pending

ins thi

goods \$400,-

ens to ucture. re, sur control prices m that dation cessful OW is ure of t the :S: s had spent had a ,000, 00 on .000. £ \$6. into

lance 450,vices.

rbed

taxes lable not

and the

ned

The

41



Crossing the new frontier is not alone for the railroads. GM Diesels will usher in new possibilities for the farm and for industry as well.



ENGINES. . 150 to 2000 H.P. . . CLEVELAND DIESEL ENGINE DIVISION, Cleveland, Ohio

ENGINES 15 to 250 H.P..... DETROIT DIESEL ENGINE DIVISION, Detroit, Mich.



"THAT'S THE STUFF that will win the War—

These are the materials that are accorded preferential movement.

Until the War is won they must have right of way. **

While this is being done the Scaboard may not in every instance be able to maintain the same standard of service on commercial traffic as in normal times. Therefore, if your shipment should be late, we rely on your indulgence and continued cooperation. Scaboard maintains Service Agents in many strategic cities to assist in your transportation problems. We invite you to enlist their aid.

> KEEP ON BUYING WAR BONDS AND STAMPS Remember, there's no let-up, no time-out, for our fighting men.

SEABOARD RAILWAY



promotions and upgrading or last va automatic increases in the cost-of-lin bonus which gave employees an en \$80,000,000.

An anchor for the anti-inflation hat the wage end may be found in a probe into labor relations now be conducted by the National War Lab Board, but control of farm prices in pected to be less severe under a dof authority from Donald Gordon's pri administration to Minister of Agriculture J. G. Gardiner.

Compulsory Bargaining Fought NWLB's labor relations probe is bin ing protests from large industrial emplorers about labor demand for a warfacompulsory bargaining law. Considered Mining & Smelting Corp. a other companies have strongly on ounced a proposal that independe unions be excluded from recognition bargaining agencies. NWLB's finding are expected to include a plan for copulsory bargaining in war industry which does not shut out plant and of independent unions.

• Food Bank Favored—The Ottawa as ernment had no part in framing the brish plan now before the Hot Springs of ference for an international food ba (page 22), but the project has plenty appeal for Canada as one of the leads food producing nations. Ottawa of cials and Canadian agricultural interare particularly attracted to the part the program that aims at absorbing a plus supplies from years of high production into an international reserve again years of short supply and thereby protein price stability.

As seen here, the British proposal a pears to make a major contribution a long-term solution of the postus economic problem of Canada's the western wheat-growing provinces, as one which—if established soon—would be an aid to the anti-inflation program which is bound to continue until some months after the war. But it is recognized that no such plan could succeed independently of other international arrangements for general betterment of world economic and commercial conditions. Also, Canadians are withholding in the plan until the plan was a producer nation being large parallel to those of its big neighbor.

STEMMING LABOR FLOW

Washington and Ottawa have just reached an agreement to remove the friction caused by the high wages paid on U. S. government projects in Canada

For more than a year, employers had been losing laborers, mechanical work ers, clerks, and stenographers who had turned in a steady stream to the better paying jobs offered by United State Army contractors on the Alcan higher and other war projects. Recent bans of

Laying a depth charge for AXIS SUES!



In mines thousands of miles removed from the battle of the Atlantic, Cleveland Rock Drills are contributing to the relentless warfare against enemy submarines. Here, for example, a Cleveland Drifter is drilling holes for dynamite charges that facilitate removal of warvital metals. Such metal is used in destroyers, "ash cans," shells, patrol planes, and many other weapons of sub warfare.

This is but one of many examples of Cleveland Rock Drill's behindthe-lines service in winning the war. And when the weapons of war are again replaced by the products of peace, Cleveland equipment will continue to serve by helping mine the metals so necessary to industrial progress.

If you have a rock drilling problem, either in mining or construction work, a Cleveland engineer will be glad to help you solve it.

BUY U. S. WAR BONDS AND STAMPS

CLEVELAND
ROCK DRILL EQUIPMENT
includes:
Sinkers, drifters, stopers, jumbo
drill rigs, paving breakers, clay
diggers, tampers, wagon drills.
Also e complete line of accessories

last year

Con

mition finding for condust the Bi cawa get the Bi cawa get the Bi cawa do ba cawa do interest part product against a gain again a again a again finding si again a again a again finding si again a again a again a again finding si again a again again a again again a again aga

tion

thi

-Wou rogra

Son

ucce

ation

con

CLEVELAND ROCK DRILL CO.

Subsidiary of The Cleveland Pneumatic Tool Co

ranch Offices in All Principal Cities and Mining Confere



Combines time-delay action of the proven thermal trip with the fast/magnetic trip.....



for electric light and appliance branch circuits, prevents unnecessary interruptions in service - but provides full protection against short circuits or dangerous overloads. On harmless momentary overload, the thermal element prevents interruption of service, but trips on sustained, dangerous overload. On short circuit the magnetic element causes faster tripping.

The improved @ Thermag Circuit Breakers are now furnished in all nstandard and narrow column type panelboards, and in all dust-tight panelboards, at no additional cost . . . Capacities: 50 amperes or less, 120 volts AC, single or double pole, individual trip.

Sturdy construction renders @ Thermag Circuit Breakers ideal for industrial use.





Today every executive is alert to the necessity of better techniques in dealing with others for the furtherance of the common objective. Here is a new special edition of this sound and stimulating manual for every man who wants to improve his methods of getting along with others

The Technique of EXECUTIVE CONTROL

ERWIN H. SCHELL, Professor of Business Management. Massachusetts Institute of Technology

Price, only \$2.00

with problems of: -responsibility
-discipline
-executive stimulation -constructiveness
-self-assertion and selfexpression -leadership -justice

Shows how to deal

analysis of labor require--introduction of the new

employee difficulties with subordi-

nates

opposition stubborness

—disloyalty ←dishonesty -immorality

--immorality
--irresponsibility
--the agitator
--difficulties with superiors
and associates
--responsibility for errors

See it 10 days on approval SEND THIS COUPON SHOWS that executive technique is not a mysterious sixth sense, but a quality that can be definitely developed by anyone who will follow the simple methods laid down in this manual. Defines the tools of executive control; outlines the factors involved in the the v

ssful handling of others; gives ical and usable methods for get- i maximum output of work with a num amount of friction. In this in a new chapter discussing the nce of the current emergency upon arious techniques of executive con- inco been added.	TECHNIQUE OF	
***************************************	EXECUTIVE	
GRAW-HILL BOOK CO., W. 42nd St., N. Y. C.	CONTROL	
d me Schell's The Technique of Execu- Control, War Production Edition, for days' examination on approval. In 10 s I will send \$2.00, plus few cents post- or return book postpaid. (Postage paid	SCHELL	

on cash order 1	i'r corage	P.03.04		
Name				
Address				
City and State	*******		******	*******
Position			*** *******	
diameter.				-

the transfer of more Dominion works to these jobs have been protested i labor organizations, and the whole pro lem was beginning to affect Dominio U. S. relations.

DeS

embe

oilern

ortlan

Appar

at thi

10.0 enry]

re., no F.L.

noothe

resul

Truce

eShet

st mo

med !

e had

ho is

Fort.

was |

ouldn

(43,p9

Clash

nd the Inion

ost Por

msel

onth

or Jo

nion

Fina

n the

nown

laims

mall,

ttent

nion

onth

he A

ee an

Gre

ast w

vas "

n pro Ma

Meye

vere neeti factio

ocal

Ray, contr BW

T

draw

east M

publ

Busi

wa

The solution now seems in sight with the appointment by the Labor Minis of a special Western War Labor Rose whose operations will cover the pro inces of British Columbia and Albert The board, to which Washington is vited to appoint a consulting representative, will have authority to fix pascales for all Canadians hired by Unite States contractors. Presumably they w be in line with prevailing wage rates the western provinces.

NO BARGAINING BY FORCE

Canada's National War Labor Boar has served notice on labor unions th claims to recognition as bargaining agents, if based on success of strike a tion or other coercive moves, will not h recognized.

Recently, the board refused to her a pay adjustment application for Mon real Tramways' employees presented the Canadian Brotherhood of Railwa Employees which claimed bargaining rights as the result of the recent tie-u of transportation in Montreal. NWLB brushoff of the brotherhood nullifier Labor Dept. recognition of the unio as the bargaining agency and forced Labor Minister Humphrey Mitchell to a range for a vote of Tramway workers to determine representation.

Subsequently, eight war plants Galt, Ont., had operations curtailed h a United Steelworkers' (C.I.O.) strike called for the purpose of asserting the union's claim to recognition as bargaining agent. According to company est mates, not more than 50% of the work ers in any of the Galt plants walked out

however.

SELLING CANADA

Washington is pleased and London is worried over the Wartime Informa tion Board office that Canada has just opened in New York and on which nearly \$100,000 has already been spent

Determined to make Americans more familiar with Canada and with the size and importance of the Dominion's war effort, a little group of progressives in Ottawa finally succeeded in selling the government the idea of propagandizing their country south of the border in the style familiar to Americans. New York got the first information office because it is the publishing, advertising, and radio center of the United States.

Success to date suggests that other offices may be opened across the country. London is worried because the tid may last long after the war and cut the traditional volume of lucrative British-

Canadian trade.

ABOR

ght wit Minist or Boa

ne prom Alberta on is in

epresen fix pa Unite

hey wi

rates is

ORCE

Board

ns tha

gainin

rike at

not b

o hea Mont

ted b

ailwa

gaining

tie-m

VLB

ıllifie

union ed La

cers to

its

ed b

strik

eShetler Is Back

C. I. O. organizer reopens embership drive to win A. F. L. oilermakers at Kaiser yards in ortland after dispute.

Apparently the internal differences at threatened to disrupt completely I.O. efforts to sign up members in the tenry J. Kaiser shipyards at Portland, i.e., now a stronghold of the powerful F.L. Boilermakers Union, have been moothed out, and the campaign will resumed.

Truce Effected?—Last week, Irwin eshetler, assigned by the C.I.O. early st month to run the campaign, remed from Washington, D. C., where had gone to demand a showdown on ho is to be the boss of the Portland fort. When he left for Washington, was generally understood that unless e was given complete charge he ouldn't return to Portland (BW—May '43,p94).

Clash between the national C.I.O. and the C.I.O. Marine & Shipbuilding Inion of America caused the mixup, lost Portland observers believe. DeSheter found his authority divided between imself and Ruth Meyers who for many lonths had maintained an office there or John Green, C.I.O. shipbuilding mion president.

Financial Appeal Again—Both are still in the job, but DeShetler has let it be mown that he really is the boss he tains he originally was supposed to be. imall, one-column ads are appearing gain in Portland newspapers calling then the tent that the C.I.O. mion charges no initiation fees and nonthly dues are \$1.25 in contrast to the A.F.L. boilermakers' \$25 initiation that are and dues of \$3.50 monthly. Green himself showed up in Portland

Green himself showed up in Portland ast week. Purpose of his visit, he said, as "to look things over and check up n preparations for a membership drive."

Mass Meeting Flops—DeShetler, Ruth sleyers, and other local C.I.O. officials were interested spectators at the mass neeting held last week by the dissident

action within the Portland A.F.L. cal which is trying to oust Tommy kay, secretary and business agent, from control of the 60,000-member local BW-Feb.13'43,p78).

The mass meeting proved a dud, frawing an audience of 500 when at east 3,000 were expected.

Minority's Charges—Fresenting their case to what they called "the jury of public opinion," officers who say they represent the rank and file and claim



Speedi-Dri, even when soaked in oil, will not burst into flame. Unlike sawdust, Speedi-Dri is an effective fire-retardant. Blanket the oily floors around your machines with Speedi-Dri and you need never fear the dangers of a flash fire.

But Speedi-Dri does more than control the fire hazard. It provides a non-slip surface, helping to prevent many a falling-accident. Its absorption quality is so great that it will actually draw old oil stains from wood, concrete, or steel floors. It can be spread by hand and easily swept up with a broom. Speedi-Dri costs less per square foot of floor coverage than any other effective method or product.

When you figure the money you save on insurance, cleaning equipment, and labor; the production time you save by reducing accidents; the lift to employe morale that comes from a cleaner, safer shop, Speedi-Dri almost pays for itself!

You'll never believe what this product can do, till you see it with your own eyes. Write for a generous Free Sample. There is only one Speedi-Dri. (If you use water-soluble oils, or if water is also present, ask for Sol-Speedi-Dri.)



CRANES?



Build your own!

OU can acquire either a jib or a bridge crane by building it yourself—and in an hour's time.

You need only a wrench, an I-beam and a 'Budgit' Crane Assembly for a jib crane. (For a bridge crane you will also need a shaft.) There are no holes to drill—nor is there machine work of any kind.

It does not take a skilled mechanic to build a crane by this new and revolutionary method. Any intelligent workman can do the job.

This is such a sensible, practical idea that we have shipped hundreds of Crane Assemblies to war industries where they are helping to increase production.

You need not wait weeks for a Crane Assembly. On the right priority, we can make quick deliveries and your new crane can be operating the day you receive the Assembly. Transportation costs are low as you buy the heavy beam or shaft from the nearest source.

Simple but complete instructions are included with every Crane Assembly.

Write for Bulletin 355 which contains full information of this quick, economical way to acquire jib or bridge cranes.



'BUDGIT'

Crane Assemblies

MANNING, MAXWELL & MOORE, INC. MUSKEGON, MICHIGAN

Builders of "Shaw-Box" Crones, "Budgit" and "Load Lifter" Hoists and other lifting specialities. Makers of Ashcroft Gauges, Mancock Yalves. Consolidated Safety and Relief Valves and "American" industrial instruments. they are the duly elected officials of the boilermakers' local charged they have been prevented from taking office and denied use of the union's \$225,000 "marble palace" headquarters. They claim they have received no financial statement or audits of the local's books, that the national organization has held no convention in six years, and that the present officers of the local are serving illegally.

Most speakers attacked Tommy Ray, charging he built the "marble palace" without authorization and that he has transferred \$260,000 in war bonds to international headquarters.

Incidentally, just where the rank-andfilers got the \$1,700 they spent to advertise the meeting and rent the auditorium is a matter for considerable speculation in Portland.

• Hearings to End Soon—All these A.F.L. and C.I.O. activities took place last week as the National Labor Relations Board's Portland hearing on charges of unfair labor practices against the Kaiser companies apparently were drawing to a close. The hearing opened in January (BW—Jan.16'43,p80). Sole question for the board to decide is whether a collective bargaining unit, within the meaning of the Wagner Act, existed in the Kaiser yards when closed shop contracts were signed between the A.F.L. boilermakers and the Kaiser management.

Should the contracts be ruled invalid by the board and an election ordered, most Portland observers are now inclined to believe a "no-union" vote

would win.

Driving a Bargain

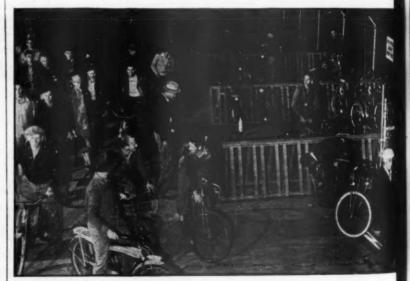
Machinists' move to leave A. F. L. seen as attempt to bolste their position in jurisdictional row with carpenters.

The International Assn. of Macha ists, A.F.L. affiliate with a claimed men bership of 600,000 centering in the metal trades, in shipbuilding, and in haircraft firms like Boeing and Lockhen has left the American Federation a Labor.

• Jurisdictional Fight — I.A.M. as A.F.L.'s carpenters union have been a gaged in a 30-year fight over jurisdicting and for the last five years, every time is issue came up before the federation issue came up before the federation less that the decision. It's a fight over who members shall have the right to inshand dismantle machinery in factors Harvey Brown, I.A.M.'s scrappy predent has taken his organization out A.F.L. as a bargaining move to indust the federation to change its mind.

the federation to change its mind.

Although the C.I.O. would welcon
the machinists with open arms-pa
ticularly as an offset to the Lewis mo
back into the A.F.L. (BW-May294
p17)—they would not be comfortal
in the rival group. In a number of in
portant industrial areas, their jurisd
tion overlaps C.I.O.'s auto workers, and ele
trical, radio, and machine workers. Li
wise, as the coal miners found out.



BIKE PARK

Bicycles help to cut absenteeism and tardiness in a number of war plant areas by taking some of the heat off overburdened transportation. At Burbank, Calif., Lockheed Aircraft considers two-wheelers important enouge to sell them to workers living with four miles of the plant. Under Lost heed's plan, 2,000 employees has bought bikes for daily transportation. The company provides a bicycle paing lot (above) for its pedalers.

Busi



WHEN ice forms on the wings of a bomber, an M-H Electronic instrument automatically sets in motion the de-icers on its wings. Likewise, in the operation of the plane and its fighting mechanisms, M-H Electrons perform important operating functions. The same accuracy and dependability now so vital in instruments of war, will be applied by Minneapolis-Honeywell through Electronics, as soon

as the war is over, to Controls for effortless peacetime living as well as to M-H/Brown Instruments for the control of Industrial Production. This is a promise that will be realized in American homes and American industry. Minneapolis-Honeywell Regulator Company, 2728 Fourth Ave. S., Minneapolis, Minnesota. In Canada: Toronto, Ontario. In Europe: London, England, and Stockholm, Sweden.

★ Listen: "JOHN FREEDOM"— Blue Network Coast to Coast every Wednesday, 9:00 to 9:30 P. M. Eastern War Time; or see your newspaper, "The Mast Drumatic Show on the Are" INSTRUMENTS BY BROWN FOR INDUSTRY
MINNEAPOLIS-HONEYWELL
TEMPERATURE CONTROLS



If YOU are planning construction or alterations for the near future, these new multiple-function Celotex Products can save you time, labor, and critical materials!

CEMESTO combines exterior and interior finish, plus insulation, in a complete fire-resistant wall unit . . . CELO-SIDING combines sheathing, insulation, and a mineralized exterior surface.

CELO-ROCK WALL UNITS, composed of laminated layers of gypsum wall board, are made in two styles—one weather-surfaced for exterior use, the other clear white for interiors. Both are strong, rigid, fire-resistant.

Get full details from your Celotex dealer, or write direct to The Celotex Corporation, Chicago.

CELOTEX ROOFING - INSULATING BOARD ROCK WOOL CYPSIM WALLBOARD

independent status has its disadvantages.

• Strong Talk Discounted—Informed labor opinion is therefore assuming that Brown will be back in A.F.L. by next August—when the federation executive council holds its next meeting—conciliated in some fashion so that his return will not cost him face.

"COMP" RATES REDUCED

Employers in Kentucky will be exempt, beginning July 1, from paying workmen's compensation insurance premiums on 75% of employees' overtime wages, as the result of a State Workmen's Compensation Board ruling. Chiefly a wartime order, it will be effective for one year.

The extra pay, the commission figures, in no way reflects an increased hazard to the worker. Eventually, this would result in a lower rate for insurance, but Kentucky industry still would be out money because the lower rate probably would apply to much smaller payrolls—that is, to the payrolls of normal times.

It is estimated that savings amounting to approximately \$100,000 a year would accrue to general industry in Kentucky, with probably as much more to the coal industry, which has a separate rate schedule. An estimated 200,000 workers come under the order.

Drivers Rebe

Organizational drive of Teamsters Union hits snag in Port Huron; nonunionists his back with strike.

Efforts of the A.F.L. Teamsing Union to organize drivers of a doze dairies at Port Huron, Mich., har brought about one of the most tangled situations the National War Laba Board has yet had to face.

• Patronage Shifted—The organization drive has resulted in: (1) a protestrike against it, called by nonuning dairy drivers; (2) a public fund to be up the strikers; (3) widespread shifting of commercial business from one dair to another and often back again; (4) similar shifting on the part of farme suppliers to the dairies; and (5) a crade down by the local OPA office on the use of gas by teamster organizations in purposes of following nonunion trucks.

livin

A

T

deve

ing t

sign

in b

muc

ings

A

insu

foun

feet

240

T

forth

labo:

idea vess

The

your

in y

ing i

Lab

cust

rial

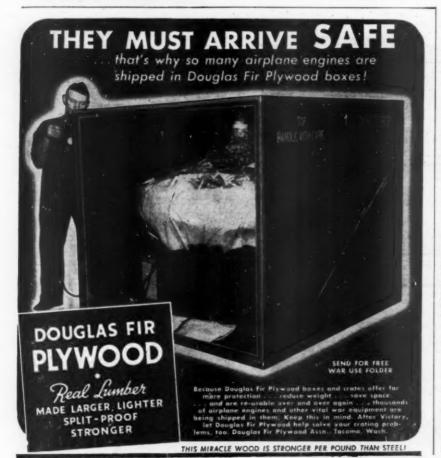
T

Of 15 milk companies in Par Huron, three smaller ones are organized. Efforts to extend unionization began early this spring, with approach to the employers rather than the employees. The employers took the point in that the Wagner Act forbade the to make any move influencing the employees one way or another.

• Would Deny Deliveries—To count this stand, the union assigned orgatizers to follow milk trucks to busine establishments, there to tell the business owners that they would be refuse deliveries by Teamsters Union member if they continued to buy nonunion milk. At the same time, other union men approached officials of the net Dow Chemical Co. plant at Marysvilk Mich., just south of Port Huron, promising counteraction if the cafeteria cutinued to handle nonunion milk.

Some business places shifted for nonunion to union dairies. The brought down the income of the normal union drivers, who work on commission. The nonunionists retaliated be calling a city-wide protest strike the foster public sympathy. For a week, mideliveries to private homes in Potential Huron stopped. Citizens, led by the Port Huron newspapers, raised a fund thelp the idle drivers.

• Status Quo—At about the same time the trucking commission of the NWL held a hearing and ordered the state quo maintained. The stores interprete this to mean that they could hand nonunion milk, and some which has hifted went back to their origin dairies. They justified this not only be their interpretation of "status quo" has also on the ground that the small union dairies could not fill their needs. The small supply of milk available through



How many war buildings can a ship carry?

ts hi

tangle

to bad

shifting e dain

farme

crack

on th

ons fr

truck

Por

Organ

izatio

roach

ne en

e pos e the

ounte organ usines

e bus

efuse

mber

unio

A most every week! They must have living quarters, mess halls, hospitals.

And every foot of shipping space is precious. That's why the new task-force buildings

That's why the new task-force buildings developed by United States Steel are creating such a sensation in military circles.

These steel task-force buildings are so designed that they are carried in a ship's hold in bundled, nested sections. They take up much less space than "knocked-down" buildings of other kinds.

A 20-by-50-foot building, complete with insulation, flooring, windows, doors and foundations, and containing 10,300 cubic feet of living space, can be packed in only 240 cubic feet of shipping space! And it can be erected and ready to use in a few hours!

This is just one new development called forth by the war. From United States Steel laboratories are coming many others; a new, fast way to make bullet-core steel; ideas for speeding up the building of naval vessels; steel runways for landing fields.

After the war . . . they're yours!

The new, better steels born of war will be yours when peace returns. Available for use in your products, whether you make washing machines or automobiles. And the U.S.S. Label on the products will prove to your customers once again that no other material rivals steel in usefulness and economy.

NEW STEELS FOR AMERICA

BUY WAR BONDS EVERY PAYDAY

The maney you loan builds America's war strength. Yours again to spend in years to come... for new strength, products of steel, things for better living.

AMERICAN BRIDGE COMPANY - AMERICAN STEEL & WIRE COM-PARY - BOYLE MANUFACTURING COMPANY - CARREGIE-SLIMOIS STEEL CORPONATION - COLUMBIA STEEL COMPANY -CYCLOHE FENCE DIVISION - FEDERAL BHIPBUILDING & DRY CYCLOHE FENCE DIVISION - PEDERAL BHIPBUILDING & DRY SUPPLY COMPANY - STRINGESSE COLL, HON & FAILROAD COMPANY - TUBULAR ALLOY STEEL CORPORATION - UNITED STATES STEEL EXPORT COMPANY - UNITED STATES STEEL SUPPLY COMPANY - UNIVERSAL ATLAS CEMENT COMPANY -VIRGINIA BRIDGE COMPANY -





Versatile Buell Dust Recovery Systems help produce it

Carbon dioxide, the gas that puts the pop in soda, inflates rubber life rafts, and makes dry ice, is also the gas that anuffs out flaming gasoline and oil. At landing fields and on carrier flight decks, asbestos-clad rescue squads stand by with bright red cylinders of CO₂ to fight crashlanding fires. Planes aloft carry CO₂ to snuff engine fires and prevent gas tank fires caused by tracer bullets.

Versatile Buell Dust Recovery Systems help produce this flame-killer—in many plants as a profitable by-product from flue gases. Buell's function is to clean the gases by removing contaminating flue dust prior to the recovery of the carbon dioxide—a job at which Buell Dust Recovery Systems have proved highly efficient and economical.

BUELL ENGINEERING COMPANY, INC. 60 Wall Tower, New York Sales Representatives in Principal Cities



Factual
28-page book.
Write for
Bulletin G-842.

The patented van Tongeren cyclone, an exclusive feature, gives Buell Dust Recovery Systems their high efficiency. Long life, low operating and maintenance cost, and unlimited capacity are other reasons for Buell's wide acceptance throughout industry.



BUY WAR BONDS AND MAKE THE AXIS BITE THE DUST

WMC APPEALS EASED

m

nds

y W

fete

Man cial a

eir

ving

eling. Man

ropose

1 8

mplo

gton

signn

ough

efeteri

Profi

ke the

uned lub, v

nildin

hat er

ponsor

st on-

ts keen ctivity thletic

ervices

They

orker

ible fo

r asses

nanage

num (

lovees

epartr

ommi

xecuti

nd a

etaine

The

lockhe at afte

he pro

vas do

ivities

nd we

Cant

eipts v

n nee

ice.

ivities

ommi

zine o

oloyees

ng ad

tanteer

trated

been si

In 1

Busines

Machinery for either employers or employees to use in a pealing from the numerous rulings orders, and directives of the War Manpower Commission has now been established, by Regulation No. 5 which comes out of the office of WMC Chairman Paul V. McNutt. It prescribes who may appeal what and how, as well as outlining procedure which the commission will use in handling such appeals. It also provides that anyone affected by WMC action is to be informed of his appeal rights.

An employer may ask for special treatment when he is required to alter his going practice of hiring or releasing workers, or if WMC maintains that he is violating any commission ruling. An employee may appeal when WMC action keeps him out of a job, limits his right to shift jobs, or results in his being transferred or laid off against his will.

Appeals are to be taken as soon as possible after the action protested, and they must be initiated with area labor-management appeals committees which are being established for that purpose. Unsatisfactory decisions may be appealed up to McNutt himself.

these dairies was, meanwhile, bein further reduced by refusal of man dairy farmers to sell to them.

As this shifting continued, the Tean sters Union renewed its organization efforts, attempting a general labor be cott of stores handling nonunion mile • Endurance Test—It looks like a ts of endurance in Port Huron—whether the nonunion drivers and their employers will cave in under the pressure of the union, or whether the union will decide the game isn't worth the cande Only about 50 drivers are involved.

MERGER PROBLEM SOLVED

When the Washington Iron Work in Buffalo bought out the Fillmor Foundry, a strange labor union condition resulted. The A.F.L. Internation Brotherhood of Firemen & Oilers has a contract in the Washington work employing 60, and the C.I.O. Units Steelworkers had just been certified a bargaining agent for Fillmore's 30.

The plants were physically merge Both the C.I.O. and the A.F.L. could have rested on their legal rights, but but acceded to a National Labor Relation Board election after the employer postioned for relief. The originally smalls C.I.O. unit in the end gobbled up the A.F.L. unit, winning the election 53-

mployees Play

Ian-

0. 5 e of

Mc.

out-

om-

anyis to hts,

cial I to

g or MC

wee

tion

his

inst

000

ted

ap-

Un-

bein

man

Lockheed workers' club nds its activities increased y war; company plans to give afeteria to organization.

Many's the plant in which employees' ocial and recreation clubs have proved heir value, and Lockheed Aircraft orp. has one of which it thinks most ighly. Lockheed, in fact, is currently ving a substantial indication of its

Management Support—The company posses to donate a cafeteria (building naterials and equipment alone will run a \$300,000 outlay) to its Lockheed imployees Recreation Club. To that nd, corporation officials were in Washegton recently making a strong bid for clease of these materials and for the signment of a priority number high nough to assure the completion of the afeteria.

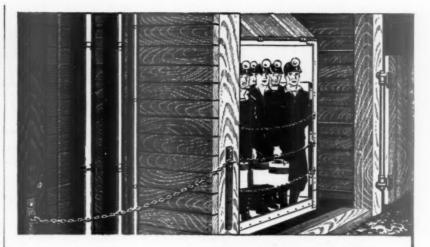
Profits from the proposed venture, ke those from the eight canteens now wned and operated by the employees' lub, would go to support the morale-uilding program. Lockheed has found hat employees who take part in club consored activities "maintain the high-st on-the-job regularity records." Hence skeen interest in the whole schedule of ctivity—recreation of both social and hletic character and a variety of social

rvices.
They Pay No Dues—Every Lockheed orker automatically is a member, eligible for all activities. They pay no dues rassessments, are given a maximum of nanagement cooperation but a minimum of management direction. Employees elected from the various plants, lepartments, and working shifts form the council which, with the executive mmittee, directs every function. An recutive secretary, a recreation director, and a director of women's activities are ctained on a full-time basis.

The club goes back to 1935 when a lockheed baseball team, passing the at after a Sunday game, voted to donate the proceeds to a fellow employee who was down on his luck. Quickly club activities grew to include dances, picnics, and week-end parties.

Canteens Successful—Before long, re-

Canteens Successful—Before long, recipts were helping to care for members in need of emergency financial assistance. As the treasury grew, self-help achities were concentrated in a service sommittee. Next came a monthly magaine owned and operated by the employees, with volunteer salesmen solicitanteen system shortly was demonstrated to the management, and it has been successful from the very start. In 1939, the club became a nonprofit



WOOD Installed Years Ago is Helping the War Effort

A MINE SHAFT carries a lot of traffic. Through it travel the manhoist, skips and counterweights, plus piping and conduit, the manway and ventilating shaft. Construction has to be true, sturdy and dependable, in the face of conditions that are unusually severe—a lot of moisture is present, and exhaust air may carry fungus-forming spores.

WOLMANIZED LUMBER* has been widely used for this important construction as shaft timbers, planking and guides, in trestles and head frames, and as ties. The fact that it performs so well, under these adverse conditions, explains why service records on Wolmanized Lumber make such interesting reading.

PROLONGED UFE of this treated wood greatly reduces the labor required for maintenance. Thus, the millions of feet of Wolmanized Lumber used throughout industry generally, for years past, are now helping to ease the manpower situation. New materials can go into other vital construction, and the money saved can help the war effort.

WOLMANIZED LUMBER is ordinary wood, "alloyed for endurance". Vacuum-pressure impregnation with Wolman Salts* preservative makes it highly resistant to decay and termite attack. In using it, you retain all of the advantages of working with wood—ease of handling and erection, light weight, strength, resilience, high insulating value. American Lumber & Treating Company, 1656 McCormick Building, Chicago, Illinois.

*Registered Trade Mark



WHAT THE LABOR BALANCE SHEET SHOWS

Figures Behind the Manpower Problem

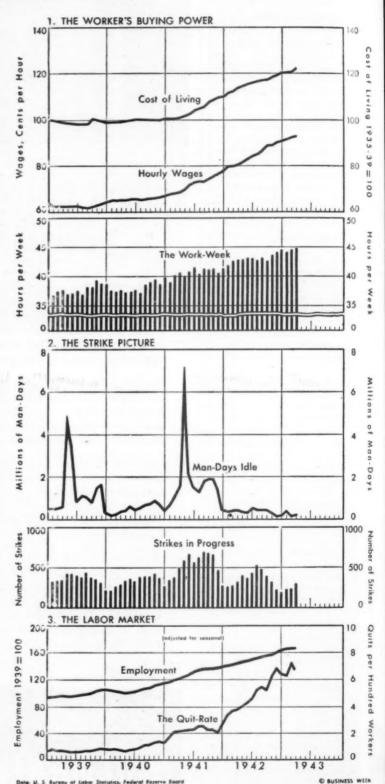
The fact that the cost-of-living line in the top chart is curling upward in a more precipitate rise than at any time since August-September, 1941, is the most significant development reflected in this quarterly presentation of labor statistics. Last quarter's figures (BW-Mar.13'43, p98) suggested that living costs and hourly wages might, as they did in 1942, closely parallel each other this year; but, for the first three months at least, they reveal divergent tendencies. For March, 1943, real hourly wages have declined.

• The Worker's Buying Power—At 44.8, average hours worked per week reach a new peak. They assure a larger take-home pay for labor and an absolute increase in real weekly earnings. The work-week will continue to lengthen and may be above 48 by the end of the year. As we reach the end of our reserve of unemployed (BW—May22'43,p112) and begin to experience difficulties in drawing additional workers into the labor market, it is a longer work-week on which we must depend to provide the increased man-hours necessary to run our production plants.

• The Strike Picture—Quarterly figures on man-days of idleness and strikes in progress have fallen behind the facts. What the charts show for the first three months of 1943 should not be construed as a hint of what is to come.

Organized labor's no-strike pledge held well until May, or, perhaps more accurately, it was only then put to the test by being confronted with government policy that opposed many union demands. Next quarter's compilation will show work stoppages at a level surpassed only by the first half of 1941.

• The Labor Market-What accretion there has been in the number of employed comes primarily from the entry into factories of women who are not normally wage earners. As the chart indicates, they are not entering the labor market at any phenomenal rate, and, inasmuch as they are our most important labor reserve, we may expect a continued flatness of the employment curve. Although the quit-rate moves by fits and starts, the March downturn can be attributed in part to the national campaign now being conducted by the War Manpower Commission against changing jobs.



Mr. Industrial Executive:

Your needs may be: Improving present mechanisms, or developing new mechanical ideas, parts or complete assemblies, experimental or mass production. Or you may need help on what to make for peacetime. Though our complete production facilities are on Aircraft Armament bomb releasing mechanisms, etc.... WE CAN THINK ON YOUR PROBLEM NOW. Also for anyone outside U. S. A., let us assure you that Tariff Walls, Money Exchange or Distance will present no insurmountable barriers to rendering the unique

Spriesch service... After Victory.

YOUR POSTWAR NEEDS MAY BE SERVED BY THIS MESSAGE AND OUR 36-PAGE BROCHURE "INGENUITY"

HOPPER PAPER GO, INC. MANUFACTURERS TABLETS, CONFOSITION AND NOTE HOOKS
LOOME LEAF DENDERS AND FILLESS RIGHMOND, VA.

War. 8, 1943

Spriesch Tool & Manufacturing Co., Inc.

Buffalo, N. Y.

Gentlemen:

Tour attention-compelling advertisement in a recent issue of printers! Ink prompted us to request your brochure "Ingenuity". Several days ago we received information indicating your interest in preparing contracts for your organization after the war.

Our corporation, comprising four manufacturing divisions, are engaged in light industrial work. Specialty machinery is used there is room for substantial improvement on the machinery but there is room for substantial improvement washanised through we now operate with and we are not properly machanised through we now operate with and we are not properly machanised through but there is room for substantial improvement on the machinery we now operate with and we are not properly mechanized throughout the business.

There is much hand work done which should be eliminated. The war has brought this forcibly to our attention eliminated.

Are you interested in the development of new machines for our Are you interested in the development of new machines for our company! If so, tell us how we should proceed to place our problems before you for study now, with the idea of producing these machines as soon as the war is over.

Very truly yours, HOPPER PAPER CO., INC.

By: Robert Hopper

This letter reproduced by pern one company's postwar planning

. . . We've been serving the Army since 1928; went on our present 24 hour production schedule long before Pearl Harbor.

Write (on your business letterhead, please) for our informative 36-page brochure "Ingenuity." In it is illustrated and described our extensive facilities and our spirit... and both could serve you well After Victory, Joseph J. Cheney, President.

Established 1923

resche TOOL & MANUFACTURING CO., Inc.

HOWARD STREET . . BUFFALO, NEW YORK

tiness Week • June 5, 1943

95



BALTIMORE BLUEPRINT

Baltimore was the War Manpower Commission's guinea pig (BW-Oct. 3'42,p17). Its experience with the nation's first voluntary job-control program gave Washington some bench marks for measuring labor market problems and assaying remedial measures in other manpower shortage areas. Since the Baltimore plan was launched, it has been instituted with some variations in 67 other communities and will be extended to 105 more



localities. Every major industrial center will soon have its manpower controlled by the plan or some variant of it. But that it's no panacea is attested by an Office of War Information survey just completed in Baltimore. Shortage of adequate transportation facilities is one of the chief complaints. Excursion boats being used to ferry workers (above left) are jammed; traffic congestion becomes extremely intense when shifts change (above right); maintenance of existing buses (below) is a touch-and-go proposition.



California corporation, an unusual step

for such an organization.

An outstanding program at present is cosponsorship, with Vega Aircraft, a subsidiary, of the Lockheed-Vega Employees Buck-of-the-Month for Victory Club. Members contribute \$1 a month for distribution among war charities and service organizations. The donation for the first year was \$300,000 without any loss of production time or individual solicitation.

- Varied Program-Other L.E.R.C. activities-degree of individual participation prescribed more or less by wartime necessity-include:
- (1) A broad service committee program which provides money to employees in

need of funds; radios, flowers, or cigarettes to the convalescent; cigarettes to former Lockheed employees in the armed services; and other attentions needed.

(2) Cosponsorship with Vega of the Service Star Women, a group of more than 500 women employees who have close relatives in the armed services. They carry on a varied campaign to speed production, reduce absenteeism, and build morale both in the factories and among their men at the

- (3) Entertainment during lunch periods at the factories, including returning war heroes, statesmen, motion picture and radio stars, visiting bands, and motion pictures.
- 308 Bowling Teams-A comprehensive sports program, open to every employee, includes bowling, softball, basketball,

rangers (equestrian), boxing wrestling golf, baseball, tennis, rifle and pin shooting, badminton, archer roller in ice skating, skiing. The club believes 308 bowling teams constitute the large bowling league in the world. Durin basketball season, there were 57 depart mental teams divided into eight league

An educational program offers for of the plant for new workers, and peacetime, visits to sites of historical scenic interest. Lecturers are broug before Lockheed crowds, including e ployees and their families. The sponsors a band, a full symphony chestra, a small dance orchestra, and choral club, which appear at lunch n riods, at entertainments, and on radi programs.

• Special Hobbies Promoted-Sever drama clubs present plays for employer and sometimes for the public, und direction of former Hollywood exper now working on the Lockheed prod tion line. The club also sponsors specia interest groups such as a model-and hobby club and camera clubs.

Boys at Work

Combining job with his school study improves youth facility at both and raises h prestige with classmates.

A checkup on "boypower" after three months, by Lockheed and Vega plan managers, as well as Burbank a Pasadena (Calif.) school authoriti shows not only that the 16-17-year-o are highly satisfactory in the factor but also that the work improves the school ratings.

• Studies Improve-Of 200 Burbar boys employed part time since Feb. only one lost his factory job because his scholarship suffered. School wo improves because the boys, enga in actual production, see their effor transformed into money and get clearer concept of the practical use ness of study. Mathematics and physical are no longer stuff that may come handy some time-they can be appli tomorrow, on the aircraft job.

The part-time boy rates much li an athlete on school teams. To stay of the job, as on the team, he must met certain school standards. Alternation between school and factory eliminate monotony. The boy able to hold h position in both is the 1943 model

the football hero.

• Need Thousands More-More that 1,500 school boys are now employed by Lockheed and Vega, hired through their schools, with the consent of pa ents. Some work four weeks, then back to school four weeks; others wo four hours a day and attend school for



MODIFICATION WORKERS

PATCHERS

PASSENGER AGENTS

oritie

ctori

eb.

100

ngage effo

usefu

physi

me

tay of

t met natio

ninat old h odel

ploye

of pa hen

ol for

, 194



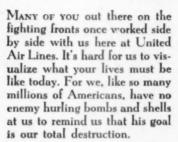
CARGO HANDLERS





TRAFFIC REPRESENTATIVES

... to our fellow workers on the Fighting Fronts



For that reason, perhaps it has taken us longer to realize the full meaning of all-out war. Perhaps we've let food rationing, and taxes, and the number of miles we can drive our cars become overly important to us.

We cannot all shoot down Zeros. We cannot all sink Uboats. We cannot all blast Nazi pillboxes to powder.

But unless we work harder and better today than yesterday. we delay your return home. And when you do come back to your job here at United, we must be able to look you squarely in the eye in the honest knowledge that we have carried our full share of this war's burden.

Realizing the urgent need for every ounce of energy and courage we can muster, we of United volunteer this pledge!



RADIO OPERATORS







SHEET-METAL WORKERS

This is our pledge to you . . .

- * I will do the best job I know how to do.
- * I will fulfill my responsibility as a citizen by buying War Bonds, taking part in Civilian Defense activities, supporting the Red Cross, and performing willingly all other home front duties required of me.
- * I will neither spread rumors nor talk about anything that might help the enemy.
- * I will not complain
- * I will accept my sacrifices here just as unselfishly as you are accepting your greater sacrifices out there.

ledge has been forwarded to each

The Employees of UNITED AIR LINES



MECHANICS



OFFICE WORKERS





MEDICAL ASSISTANTS

Jungle waters are purified ... with the aid of a deep-drawn cylinder

Shown below is another of the many products built by Hackney for the war effort. This cylinder is used for transporting and storing liquid chlorine, vitally needed by the armed forces for purifying water supplies in the tropics. This Hackney Cylinder is cold-drawn to specifications. It meets all the strength, weight, safety and bandling requirements for this type of container.



Hackney Chlorine Cylinders are used in the transportation and storage of chlorine, bringing it safely to destination over thousands of miles of land and sea. They comply with I.C.C. specifications. These cylinders are made from flat circular plates of steel. By a series of cupping and cold-drawing operations they are formed into seamless cylinders made to exacting specifications with uniform sidewall thickness. The result is a lightweight cylinder, yet one providing adequate strength.

It may be that your war and postwar problems can be solved by Hackney designs and production of special deep-drawn cylindrical shapes. They may prove advantageous for war products you are now making—for improving existing equipment—and in the design of new products for the postwar period. Through use of Hackney Deep-Drawn Shapes, manufacturers have been able to conserve material, man-hours and equipment—assure adequate strength while reducing weight. Write today for all the facts.

Pressed Steel Tank Company

General Offices and Factory · 1493 SOUTH 66th STREET
Milwaukee, Wisconsin

SHAPES AND SHELLS



hours. The factories could use the sands more and expect to have the as many by summer.

EIRT

ard gard gard was was at the

n and

ivity.

t tha

boar

an o

oneou

COU

elevan

auth

m th

ULES

Los

I-ole

The War Manpower Commission putting official pressure behind utilized tion of boys in industrial plants. Recently, it convened a conference of state apprenticeship directors from nine state and Hawaii to study means of does tailing completion of high school studie with useful employment. Conference told about a metal-working plan in Illinois which employs high school studies which employs high school boys 33 hours a week. The boys attension of the boys attended the bo

REEMPLOYMENT ASSURED

In place of the 48-hour week, down town stores in Cleveland, through the Retail Merchants Board, have made formal agreement with the area Wa Manpower Commission to grant remployment and seniority rights to an male employees who transfer to wa production jobs.

Dr. William P. Edmunds, area director of WMC, said the guarantees practically duplicated those provided in men who enter the armed services. The agreement, however, does not apply the maintenance men, engineers, furnier and truck drivers, most of whom alread have the 48-hour week.

Representatives of the United State Employment Service are canvassa store employees to find likely candidate for war factory employment. The store plan to find replacements among oldernen, or women who could not meet up production job requirements.

WELDERS' SEED MONEY

An adaptation of the "seed money idea designed to start postwar market growing now has been worked out by the Lincoln Electric Co. of Cleveland manufacturers of electric and weldin equipment. On the hunch that welder may not find industrial jobs too plent ful when the war ends, Lincoln has been circularizing them with a "Lincoln Welder Savings Plan."

The plan urges welders to save so tematically so they will have the call to buy welding equipment as soon a it's generally available, and thus be ready to get into business for them selves. Lincoln Electric designates the Cleveland Trust Co. its agent for the

Welders who subscribe start a sings account in this bank. The accoungets the same treatment as all saving accounts except that it is earmarked by the owner as seed money for a postual business. The owner can withdraw in money any time, although he's urged make deposits regularly, to budget he living expenses, and to put 10% of his income into war bonds.

EIRTON OVERRULED

e fin

ssion

utiliz

ts. Re of state

ne state
of dove

onfere

schor

aite

redit.

D

down

h the

made

a Wa

t reem

to an

to w

a dires es prac

28. T

ply t

alread

State

vassii didate stor g old

narke out b

eldin

pleni n h

e cas on

es the

coun

aving ed b

w his

of hi

194

The U. S. Circuit Court of Appeals Philadelphia has upheld the Nanal Labor Relations Board in its rathon fight with the Weirton Steel The Court held that evidence in 39,000 pages of record which the ard gathered in 17 months of hears was ample to support a conclusion the company dominated the Weir-Steel Employees Representation n and must reinstate with back pay employees fired for outside union ivity.

The court took cognizance of the that Weirton's chief defense was attack on the fairness of the board's grings. Since most of the criticism directed at a trial examiner whom board subsequently replaced, affordan opportunity for a reversal of any oneous rulings by the first examiner, court found the defense largely levant. Specifically, the court upheld authority of the board to exclude m the hearings a contumacious atney for the company.

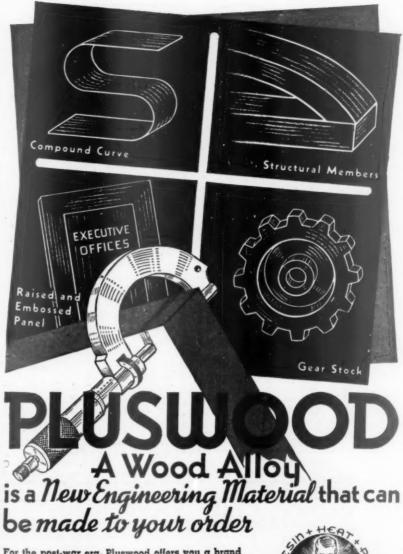
ILES ON SICK LEAVES

Instructions for handling application new or established sick-leave plans re sent to regional war labor boards ently by the National War Labor ard. They provide that, while indus-



ST ON THE TRIGGER

aiming a new world's riveting rectwo five-man teams recently hamand home 4,002 rivets in 5½ hours Los Angeles Shipbuilding's yards. gun chattering incessantly, 31-r-old Denver H. Spann (above) tained the faster team-finishing minutes ahead of the runnerup. ann's average on 7-in. rivets was 8.8 per hour.



For the post-war era, Pluswood offers you a brand new technical material, high in aesthetic value, with an exciting weight-strength ratio. A wood alloy, made by a chemico-mechanical process, it possesses structural strengths exceeding those of many metals. A non-conductor with amazing qualities of density and toughness, Pluswood can be made to your pre-determined engineering description. Thick or thin, pliable or rigid, this wood of new wonders is available in thickness ranging from 16 inches to 1/16 of an inch, and in any size up to 7 feet by 18 feet. Highly resistant to swelling, shrinking, corrosion, fire, and thermal shock—Pluswood will retain its dimensional stabil-ity so completely that only micrometer measurements indicate changes.

A dependable, responsible organization stands behind Pluswood from forest through saw mills, HEAT A dependable, responsible organization stands behind Pluswood from forest through saw mills, veneer mills and factory — established by the Lullabye Furniture Corporation, since 1897 America's foremost manufacturer of juvenile furniture. Pluswood maintains a laboratory service that you are urged to use. Write for an engineering bulletin that will give you more complete information.

Wood research.

HEAT

300 K. V. A. high frequency electrostatic generating unit—largest in the country for this purpose—delivering \$40,000 B.T.U.'s per hour.

PRESSURE

Largest and most powerful press in the plywood industry—with total pressing capacity up to \$,000,000 pounds.



WOOD Select northern birch or maple — cut from vast northern timber reserves.

RESIN Impregnated into veneers by methods and techniques developed by Pluswood research.

SWOOD Incorporated Oshkosh Wis.

Companies

Associated | NORTHERN HARDWOOD VENEERS, Inc., Butternut, Wisconsin LULLABYE EURNITURE CORPORATION, Stevens Point, Wisco ALGOMA FOREST PRODUCTS, Lid., Bruce, Onterio, Canada



Fine as a Rare Jewel

Precision Double Edge Blades

IO blades 1.

Proof of the pudding is that exacting men everywhere are going for this blade. They want the best possible shaving results, and they get them in Personna. Precision-made by Master Cutlers and rigidly inspected and then leather stropped at the factory.

PERSONNA BLADE CO.
EXECUTIVE OFFICES - 599 MADISON AVE - NYC

If your dealer can't supply you, send check or money order to Department F



Labor Shortage Areas Grow

The total number of labor market areas classified as to the stringency of their labor supply and primarily as a guide for procurement agencies in the placing of war contracts is now 278, according to the War Manpower Commission's new grouping. Only 269 were on WMC's first list (BW-Feb.20'43,p14).

Nine communities have been added to the list of Group I areas where acute labor shortages exist, but two have been removed from that classification.

• Revised Monthly—The area classification, which serves also as a guide in planning special recruiting programs by WMC and in determining special policies of the commission, such as the application of the 48-hour week and the imposition of area job stabilization plans, is revised each month to make allowance for changed conditions.

WMC divides the labor areas it keeps under surveillance into four groups:

Group I-Areas of acute labor shortage, 42 areas.

Group II—Areas of labor stringency or in which a labor shortage may be anticipated within six months, 97 areas.

Group III—Areas in which a general labor shortage may be anticipated after six months, 66 areas.

Group IV—Areas in which the labor

Group IV—Areas in which the labor supply is and will continue to be adequate to meet all known labor requirements, 73 areas.

Areas in Group IV are designated as those in which an effort should be made to renew contracts, place new contracts, and locate new production facilities.

• The Revisions—The latest changes are as follows:

Transferred from Group II to Group!
Akron, Ohio
Chambersburg, Pa.
Pine Bluff, Ark.
Salt Lake City, Utah
San Francisco, Calif.
Sturgeon Bay, Wis.
Trenton, N. J.
Wilmington, Del.
Jacksonville, Fla.

Transferred from Group 1 to Group II; Des Moines, Iowa Manitowoc, Wis.

Transferred from Group III to Group II: Benton Harbor, Mich. Providence-Pawtucket-Woonsocket, R.J. San Jose, Calif.

Transferred from Group II to Group III: Elmira, N. Y. Hagerstown, Md. Joliet, Ill. Marion, Ohio Williamsport, Pa.

Transferred from Group III to Group IV: Minneapolis-St. Paul, Minn. Newburgh, N. Y. Omaha (Neb.)-Council Bluffs (Iowa) Poughkeepsie, N. Y.

Transferred from Group IV to Group III: Augusta, Ga. Boston-Quincy-Hingham, Mass.

Columbus, Ga. Fitchburg, Mass. Nashua, N. H.

Transferred from Group II to Group IV: Bristol-Kingsport, Tenn. Terre Haute, Ind. Point Pleasant, W. Va.

Classified for the first time and added to the list:

Connersville, Ind.—Group II North Adams, Mass.—Group III Spartanburg, S. C.—Group III

trial sick-leave plans require board approval, "any reasonable sick-leave plan may be approved."

The board gave its regional agencies permission to validate time-off-for-illness programs on the theory that "such plans do not result in general increases, have no inflationary tendencies, and should result in increased production and a more effective prosecution of the war."

BOOST FOR BOND BUYERS

The Treasury Dept. and the National War Labor Board have assured employees in the more than 40,000 firms where over 10% in payrolls is being regularly allocated to war bond purchases that above-quota bond buying would in no way jeopardize possible

wage increases or be taken into coneration in deciding wage rate disputation in the land unusual declaration in necessitated by space given in the land press to the dissenting opinion of Harden P. Neff in an NWLB panel reproporting wage increases for Fireston California plant (BW-May8'43,p%)

Thro

blimp

est an

lation

neste

ing, a

availa

subma be of

In the

ready

lems.

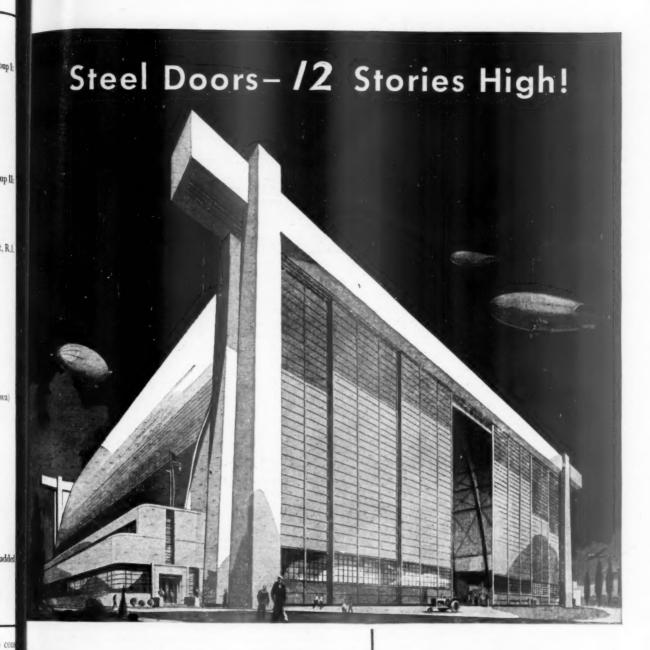
canor

facili

Trusc

Neff, who sat on the panel as an dustry representative, disagreed with public and labor members who in tigated the dispute and opined that pay boost was not essential to commaladjustments as workers were of subscribing their bond quota by 3%

The Treasury, fearful that such idea might retard the payroll deduct campaign (page 102), protested NWLB. The board responded with official statement that its members impossly shared the Treasury's views.



Through these Truscon Steel Hangar Doors will pass the blimps which help to guard our shores. This is one of the highest and widest mechanically operated straight slide door installations in the world. When the door panels are completely nested into their respective positions on each side of the building, a total obstruction-free area of 120 x 220 feet is made available. Through this tremendous opening will pass great submarine detectors, now so important to war, and destined to be of even greater importance in the Air Age of tomorrow. In the field of aviation particularly, Truscon Steel Company is ready with the solutions to terminal and hangar door problems. As the world's largest builder of straight-slide and canopy-type doors, Truscon has engineering and fabricating facilities unexcelled in the industry. Keep in touch with Truscon to be a step ahead in your peacetime building plans.



MARKETING

War Ads that Pay

Fewer people can identify war advertiser with peacetime product, but some agencies are licking the problem.

"Ways and means of preserving trademark identity by use of war advertising themes" was not listed on the agenda when the American Assn. of Advertising Agencies met late last month, nor this week at the spring meeting of the Assn. of National Advertisers. But members at both sessions were as much or more concerned with such bread-and-butter problems of the trade's existence as with more cosmic questions outlined for official consideration.

Preserving the Trademark—Manufacturers, who have spent years building upbrand consciousness through product advertising, don't intend to let trademarks lose customer prestige just because they have forsaken production of consumer goods and gone in energetically for military production.

ally for military production.

Such bouquets as the 50 outstanding war advertisements reproduced in this month's Advertising & Selling with the blessing of the Office of War Information and the industry's Advertising Council are gratefully received by advertisers and their agents. But no amount

The Life Sower that was waiting in Nacadala, Doz. 7, 19419

Or Does not not immunion and the spill of order on of in had, due
for the state of the spill of the s

Gruen, faced like other advertisers with the big job of keeping its trademark alive, plays up its "precision" theme in most war advertising copy. of tribute for contribution to morale and the war effort is compensation to the manufacturer who expects his advertising dollars to preserve consumer preference for his automobile or refrigerator while he's making tools or guns.

• Identification Drops Off-The trade began to suspect before war advertising was out of the experimental stage that the program was backfiring, that brand consciousness was being snowed under by the avalanche of war advertising. Subsequently, a survey by L. M. Clark, Inc., market research agency, which regularly checks readership of magazine advertisements, reported that 80% of war-effort advertisers were suffering a serious loss of product or trademark identification. Yardstick used in the survey was the correct association of advertiser with advertisement in the reader's mind. Findings were that in 17 out of 21 cases fewer men recognized correctly the product or service adver-tised than had identified the same advertiser correctly in prewar copy. Decrease was from 4 to 30 percentage points. Identification by women was only slightly nearer the prewar rate.

Advertising agencies have been anything but hush-hush about these findings and assure industry such trademark obscurity can be avoided. Agency competition, in fact, is focusing hotly on that point in soliciting accounts.

that point in soliciting accounts.

• How-to-Do-It Problem—Copywriters on some accounts can, of course, point to instances in which war advertising identification is better than prewar product advertising. No. 1 device for maintaining trademark identity is to carry over familiar elements from peacetime advertising. Thus the Gruen Watch Co.'s copy transfers the trademarked phrase "precision" from watches to instruments of war. On the other hand, experts attribute a considerably reduced identification of advertising for Talon slide fasteners to the elimination of the famous "gaposis" theme characteristic of the company's prewar adver-

• Too Much Success—Notable for bettering identification in war advertising is Willys-Overland, whose association with the jeep has lowered cost of securing brand association per reader by nearly 40%. As a matter of fact, Willys has been too successful, if anything, in identifying itself with the jeep—so successful that last month the Federal Trade Commission issued a complaint against Willys on the ground that its advertising had detracted from the proper credit due American Bantam Car Co. for creation and development of the jeep.

Pontiac has reduced cost of securing



Good public relations policy dictate that big war contractors tell the public what happens to the money the comes out of its pockets. Boeing do the job by buying newspaper space report on the millions of dollars the go into Flying Fortresses.

correct identification from \$12.15 pthousand men readers to \$8.50 afrom \$56.00 per thousand women \$24.45 by retaining well-established a vertising symbols in ads which tell war-effort story.

Agency men admit that, given succeed advertising dollars, correct brassociation can be established without retention of certain familiar element carried over from prewar advertising but they warn advertisers that accomplishment of such a transition probable would only necessitate another such a december of the such a transition back product identification.

C

is p

ma

ole

CUS

do

ba

F

Bus

peacetime product identification.

• Correcting Readership Lag—Whi advertisers expect to do more that stimulate Victory gardens or successive salvage campaigns with their warting advertising budgets, they still are interested in whether total readership, and from brand identification, is on the uptrend or down. Compared with preserved averages, all types of war advertising conservation, war work, and commence use of war theme—were better read to men in the first six months of layear. But women's interest was at least 10% lower than for product advertising: thus the trend in the last had of 1942 away from portraying the mechanics of war. Feminine readership went up when personalized copy in the state of the control of the state of the st



CUSHIONING Flagships FOR EASY LANDINGS

GLIDING in to an easy landing as a climax to a safe, comfortable flight is the result of attention to many details. That "cushioned landing," for example, is prepared before the flight by a serviceman as pictured above. He is giving the oleo struts their exact amount of "air cushion"— and an Airco gas regulator does the job accurately. The same method is used for controlling the air pressure to balance the hydraulic system which oper-

ates landing flap brakes and retractable landing gear—and Airco nitrogen is the gas widely used for this purpose.

Numerous are the

Numerous are the aviation uses of Air Reduction gases and

apparatus. For instance, an Airco regulator contributes to comfortable flight at high altitudes . . . arc welded jigs make possible mass production of airplanes . . . gas welding and cutting torches, as well as gas cutting machines play vital roles in the production of struts, engine mounts, and many other important aircraft parts.

With these products and through its role as a leading producer of atmospheric and chemically derived gases, Air Reduction is helping to facilitate essential operations in almost every major industry—from shipbuilding to food packing. These far-reaching activities, now directed toward our one common objective, will play an important part in building better peacetime products.



60 EAST 42nd STREET, NEW YORK, N.Y

Magnolia-Airco Gas Products Co. General Offices: HOUSTON, TEXAS

DLE CYLINDERS ARE PRODUCTION SLACKERS: KEEP 'EM ROLLING FOR VICTORY:

THE REGIONAL MARKET OUTLOOK.

A summary of industrial, agricultural, and other trends affecting the income and general business prospects in the 12 Federal Reserve districts of the nation for most recent month. (Last month's report: BW-May8'43,p72)



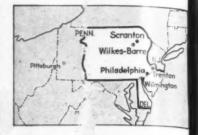
· Boston-The tightening pinch on manpower supplies in this highly industrialized region is reflected in the up-classification among labor-shortage areas (page 90) of the important Boston, Providence, and Nashua industry centers. Some further increase in arms employment is to be expected, but the worry is over the ensuing effect on such consumers' goods lines as textiles and shoes, in both of which production has declined more than in the rest of the nation.

Northern Maine, Vermont, and New Hampshire have yet had little in the way of war orders. There actually have been some losses, such as in the resort business, due to gasoline rationing. But, with labor shortages elsewhere, some few plants are being located in these rural areas. Elsewhere, as in Vermont where new asbestos mines are being opened to reinforce the state's position as the leading national producer, there has been an increase in mining and quarrying.



• New York-Autumn apparel markets opened last month in New York city almost a full two months earlier than "normal." This points up the tightness of clothing supplies relative to demand. For, with textile output easing and government takings rising, the important metropolitan clothing industry is beginning to be really hurt by materials shortages. Meanwhile, war business is looking up-both arms contracts and munitions shipping activity. Continued heavy volume on the stock exchange also is helping employment. Still, the "big city" stands low in the income-gain rankings.

Most of the rest of the district—except for upstate New York farming sections— is still up with the national leaders, however. The Buffalo, Schenectady, and Utica areas, and the whole of northern New Jersey are busy with war work, and the chief difficulty, as in most similar areas, is now the manpower shortage.



Indu

nect

• Ch

com

short

weat

grow

men

prod

poor

pect

and

still

the

cutb

actu

of t

only

CTOP

tak

ext

the

wii

ces

a

sit

th

tu

ag

T

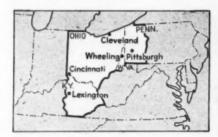
B

E

• Philadelphia- .ithough employment a payrolls in the gion as a whole have me kept pace with a national totals, either manufacturing separately or in nonagnet tural work generally, the five-county indu ng around this city conce a step facter than the trial area cu tinues to ad national ave ab. That, of course, primari reflects the surge it naval and merchant long the Delaware, thou shipbuilding aft work also have gaine ordnance ar Sharply 15 d now in comparison with

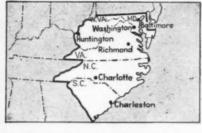
a year ago ar most other district inc such cities 4 Wilmington farming secu in receipts . areas; now a manpower p

toona and Johnstown, wit is conforming to the gener movement, and only a fe illiamsport, Bethlehem, a omning ahead. Diversific s have, all through the wa margin to match the m ked up in midwestern fam as shortage is complicat ms and weather difficulti



• Cleveland-Of all regions, this district has been most affected by the outbreak of strikes during May-in the coal fields around Pittsburgh, in the rubber factories in Akron, and in war plants in Toledo, Cleveland, Canton, etc. Though the war production lost can't be made up, payrolls lost during stoppage time may well be more than recouped if wage adjustments follow.

Other business trends have run much as expected. Almost no new plant awards occur now, and only a few projects remain to be completed. Though arms production is not rising strongly any longer, the manpower shortage is constantly growing more strungent, affecting such civilian lines as ceramics, clothing, paperboard, etc. Farmers have had to contend with a rainy spring, and income prospects would hardly be considered bright, relative to 1942 and its bumper output, were it not for the price advances of recent months.



• Richmond-The rapid tapering of construction employment during recent months has had a more marked over-all effect in this region than in most because of the particularly large concentration of military projects. Result has been to emphasize manpower disparities in the district. In war-boomed areas in the northeast sections, and in a few other spots, released workers have been quickly absorbed, whereas in many inland areas of relative labor surplus heretofore, there has been some dimunition of payrolls.

Farming sections in this region, which ordinarily consume large quantities of fertilizer, have increased purchases markedly this year; since production of fertilizer is concentrated around Hampton Roads and Baltimore, the whole operation is a district net gain. In any case, farmers are watching the weather, recalling the contrast in crop yields between the 1941 low and 1942 high.



• Atlanta-K accting typical national of ditions, prod tion in two important "res ular" lines in this region, textiles and lim ber, has fallen below last year's level. Mean time, construction activity, primarily of a military character, has dropped, and the net influx of new troops has begun to decline. The one nonagricultural factor working for increased income is armamer and the bulk of the new gains is taking place in shipyard and coastal centers. Em ployment in most inland areas has flattene out, with current levels depending on the extent of previous arms expansion.

First income loss due to weather is being sustained by Louisiana strawberry, Georgi peach, and other southern fruit and veget ble raisers (except Florida). Cotton, course, is the big cash crop, and producting prospects can't be properly evaluated in several months yet-nor, therefore, can

the farm income outlook.

A GUIDE TO INCOME TRENDS

Industrial regions contend with a worsening manpower pinch, while floods point up a generally poorer weather prospect for agriculture than last year. Stimulus of the construction boom and the troop influx ending in the South.



• Chicago—Heavy rair, throughout this com country worry farm...s. Increased plantings may not be accomplished due to the shortening of the sowing season. Silver lining, however, may be proven the state of the sowing season. Silver lining, however, may be proven the state of the sowing season. Silver lining, however, may be proven the state of the same of the same

have n

either

nagnici

orimani

nerchar

thou

gaine

on with

m, wi

gener

em, an

versific

and income six months

Employment in most i
still expanding, with new contracts and actual shutdowns of son plants. Islands of unemployment have, awever, appeared only in a few small town in the recent outcome of strikes—though the part—has production in men worried.



• St. Louis—Floods have hit this district by far the hardest of any in the nation. Worst damage extends from southern Illinois through Missouri into Arkansas. Perhaps 1,500,000 acres of crop land have been flooded in all. Much corn, cotton, and other planting will have to be redonc—if it can be—and some grown wheat and vegetables will be permanently hurt. Livestock losses have been relatively light, but farmers have marketed many animals that they had intended originally to feed to heavier weights. All in all, it is clear that 1943 farm income here has been markedly reduced below what it would have been.

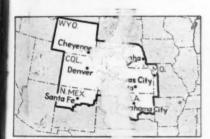
Interference with transportation caused

Interference with transportation caused industrial operations also to be affected—but much less seriously. Payrolls are still gaining in arms centers in the north, including such towns as Granite City, East St. Louis, and Quincy, near this city. Memphis, however, has been lagging.



• Twin Cities—This northwestern farm region isn't overly concerned about excess moisture coming after a delayed spring. But it would welcome some sun now—though not too much later on. The potential for a bumper crop year still exists, even if no one expects one. Prices are favorable for flaxseed and will grow more so later in the year for wheat as the government pushes for bigger 1944 plantings. And, this feed-importing region can turn a livestock profit on all the corn it can raise.

If the weather does run bad, however, armament will not be coming to the rescue. Minneapolis-St. Paul is now considered a labor surplus area. Though miners have received a wage boost, iron ore production will not come up to expectations, due to the delay (1) in lake shipping, and (2) steel capacity expansion. Small shipbuilders are concerned about a recent order centralizing purchases of supplies.



• Kansas City—Weather is beginning to take its anticipated toll of agricultural prospects in this region. Farmers expected that 1942's weather could not duplicate 1942's extraordinarily favorable, conditions, but they didn't quite look for a sharp drop in winter wheat yields, a spring-planting delay due to cold, and then an outburst of excessive rains resulting in floods. Of course, a few good months now could restore the situation to one better than normal. In the sheep-raising country, though pastures are not in as good shape as a year ago, the manpower shortage did not cut into either the lamb crop, or the wool crop. Indeed, in the western part of the district generally, growing prospects are more favorable than in the eastern sections.

This reverses the armament emphasis. Though few new war plants are scheduled, employment still is rising in the Omaha-Wichita-Tulsa-Kansas City arms_area.



• Dallas—With the scasonal upswing in farm work, and the expansion in forces at new arms plants, the labor supply in this region has tightened up noticeably of late. As farm needs climb to a summer peak, the pinch will worsen; of course, in most sections, high-pay war factories will be able to meet requirements by draining other lines.

Though Panhandle wheat and south Texas and northern Louisiana truck crops have been hit by weather, the key cash crop, cotton, is progressing fairly well, and ranges in the west are not too badly behind 1942. Too, truck crop acreage is being increased in east and central Texas.

Income in this region still is outstripping the national average, especially in those towns and cities stimulated by new plants or cantonments. East Texas is outstanding because of scattered war projects, proximity to Gulf Coast war centers, and favorable farm prospects.



• San Francisco—Though price gains will lift receipts, over-all prospects for fruit and vegetable crops in this, the nation's chief producing region, do not measure up to 1942 harvests—as anticipated, because of weather and labor difficulties. Actually, farm employment so far has held close to 1942 levels, partly because of importation of Mexican laborers.

Immigration from other sections, which has been an important source for district manpower, has slumped sharply from 1941 and 1942 totals. Near-cessation of the population movement, and the almost full utilization of existing manpower point to a flattening in employment here soon. Employment of women in California factories is up to 200,000, and a 48-hour week has just been recommended for all southern California. Shipyards, plane plants, and supplying industries are still expanding—but it won't go on very much longer.



for Every Industrial Need!

For more than half a century, every conceivable form of Industrial Equipment has rolled smoothly, efficiently, and economically on EWC Wheels and Mountings. If you now use Wheels or Azles, or it you want to convert Stationary Units into Portable Equipment, write us for engineering suggestions. No obligation.

ELECTRIC WHEEL CO., BEFT. BW, QUINCY ILL.

SOUTH AMERICAN DEVELOPMENT

Executive engineer Exceptionally broad expe-surveys, development, installation, operation: American industries, Capable taking charge of American expansion program, sales, manufact Native-born American, 46, Christian, ma Fluent Spanish, Seiary \$12000 +, Intervie

PW-346, Business Week 520 North Michigan Ave., Chicago, Ill.



I LIKE TO TRAVEL

If you are getting ready to swap your address for a new

one, be sure Business Week (that's me) comes along.

I start out from Albany, N Y., every week and I can trail you to your new spot just as easy as I've been making the old one. And I'll like it, too.

All you have to do is give me orders . . like this:

	ulation Dept., Business Week West 42nd Street, New York City
-	Please change my address.
NAM	NE
OLD	ADDRESS

people on the battle line and home front replaced the story of gleaming planes,

tanks, and jeeps.

The much debated value of the Army-Navy E as an advertising feature got one answer in a recent Clark survey which found 257 Army-Navy E advertisements appearing in national weekly magazines to be definitely below average observation, compared with all war-effort advertising. In most cases, these ads were lower in interest and observation than other advertisements placed by the same companies.

· Agencies' Own War Effort-Wrestling with war-born problems of copy and art for regular clients is tough enough, but war has had an even more immediate impact on life in the average advertising agency. According to the Advertising Council, agencies last year contributed \$4,000,000 in payroll hours alone to government work and the war

Outstanding are two war campaigns undertaken at standard fees. Kenyon & Eckhardt handled the \$500,000 fatsand-oils salvage campaign for Glycerine and Associated Industries (BW-Jun. 27'42,p20). McCann-Erickson pre-pared the far more ambitious \$2,000,-000 scrap campaign, primarily for the iron and steel industry, but it also did a collection job for the rubber, tin, and other industries which contributed about a fourth of the campaign fund.

Working for the American Industries Salvage Committee, McCann-Erickson not only prepared the campaign but also organized state and local salvage committees. Result: peak wartime inventories within 1% of the steel industry's all-time high.

Used-Car Bait

Auto finance company to lure machines out of storage with plan for immediate "trade-in" on a postwar model.

With sales of used cars moving along briskly, particularly in the Middle West (BW-May 8'43,p67), automobile dealers could come a lot closer to eking out a good existence if there were only more used cars to sell. But despite the most attractive spot cash offers, thousands and thousands of erstwhile motorists still keep the old bus jacked up in the garage. Stringent gasoline restrictions. notably in the East, may make it impossible for them to go out for a ride, and they may worry about rust in the cylinder block, dead batteries, and tire deterioration, but they're still not in a mood to sell. One big reason is sheer habit: America is used to trading its old cars in on new ones; it doesn't sell them for cash, particularly at a time when all the old standards of value, including the Red and Blue Books of used-car prices, have been thrown overboard.

• To Break the Jam-Last week, Universal C.I.T. Credit Corp., whose own fortunes have dwindled in step with those of the dealers whom it finances, announced a new plan designed to break the psychological block that holds up used-car sales and simultaneously to build a fine postwar market for the new cars-when they come.

The plan, as it will be sold to car



TRICKS WITH TROUSERS

Making emergency waterwings from pants is a neat trick taught U.S. Coast Guardsmen during functional swimming courses at Miami. First the men tie trouser bottoms securely. Then, grasping the belt line, they

fling the pants overhead, thus forcing air into the open waists. A few flings twist the waist shut, and with the inflated trouser legs around their necks, the boys go overboard. Useful when ships go down quickly, the improvised preservers will keep victims of torpedoed craft affoat for long periods.

NEW ADDRESS

B



Your second helping?
or our second front?

You want to see this war won – and won quickly. You want to see it carried to the enemy with a vengeance. Okay—so do all of us. But just remember...

A second front takes food ... food to feed our allies in addition to our own men.

Which do you want — more meat for you, or enough meat for them? An extra cup of coffee on your breakfast table, or a full tin cup of coffee for a fighting soldier?

Just remember that the meat you don't get—and the coffee and sugar that you don't get—are up at the front lines—fighting for you.

Would you have it otherwise?

Cheerfully co-operating with rationing is one way we can help to win this war. But there are scores of others. Many of them are described in a new free booklet called "You and the War," available from this magazine. Send for your copy to-day! Learn about the many opportunities for doing an important service to your country.

Read about the Citizens Defense Corps, organized as part of Local Defense Councils. Choose the job you're best at, and start doing it! You're needed—now!

Contributed by the Magazine Publishers of America

de-in"

g along e West le dealing out y more e most usands otorists in the ctions, it ima ride in the id tire t in a sheer ng its time ie, in-ks of over-Uni-OWn with nces, break

new

ed

43

EVERY CIVILIAN A FIGHTER

We stock your size!

From the very smallest weekly - premium policy to the largest contracts written, we offer you the right fit at the right price.

> May we help you study your dimensions?





NEED **WORK-BENCHES?**

... here's a ready answer

SHOP EQUIPMENT

Are sturdy, economical. Stand firm without costly bolting to floor. Choose from five heights, seven lengths, various widths - available in over 1300 combinations. Deliveries better than average. Send for free Work-Bench Bulletin today!



PATRIOTIC BIDDERS

Machines and merchandise worth \$150,000 brought \$1,825,000 in war bond pledges last week at an auction sale sponsored by the Machinery Dealers National Assn.'s Chicago chapter. Lathes, planers, and drill presses, all donated, actually went free to bidders. but bond pledges came high. For instance, a \$2,500 lathe cost one bidder \$75,000 in bonds; six candid cameras accounted for \$2,000 bond sales. At instance of members' wives, nylon hose and other feminine items were added to the catalog at the last minute.



sales

Last

lawver:

per and tillerie

dation

handso

Estima

sets, tl opinio

one in investi into t alty a . The

liquid

rough

know Com T Cum

cash

pool unit

as C · Ti tion also

corp

000

prov

up A

Cui

a fi

OP

liqu OP

dus

and

all

the wh

ter 22

Ci off tic free 24 in tra



owners by the auto dealers: "Trade in your old car now while you can get a liberal allowance on a postwar model. C.I.T. will stand behind your dealer and guarantee fulfillment of the contract. Your dealer will deposit funds with C.I.T. to cover the trade-in value of your car. And if at any time, you decide you'd rather have cash-well, a cash value will be specified in every contract (probably \$50 to \$100 below the trade-in value), and you can sell out the contract for the cash value whenever you like."

• Keep Dealer Outlets-Essentially a

goodwill builder, the plan will enable C.I.T. to keep its dealer outlets pretty well in line until such time as it can once again do business at the old stand, providing accommodation credits for dealers to purchase floor stocks of new cars and making its big money by financing the sale of those same cars to the ultimate purchaser on a 6% discount or a 11% to 12% simple interest

Additionally, operation of the plan

will, of course, help matters right now -for C.I.T. will prosper in about the same ratio as it helps the dealer. If prewar averages still hold good, C.I.T. can count on financing the resale of 50% to 60% of the cars which dealers acquire under the trade-in plan. Those sales won't always be made through the dealer who buys the used car in-in fact, with cars moving out of the rationed East into the Middle West, they are more likely to be made through different agents-but C.I.T. stands to profit, no matter where the ultimate sale is made.

• Others May Follow-C.I.T.'s maneuver took other big finance companiesnotably Commercial Credit Corp. and General Motors Acceptance Corp.ostensibly by surprise, and, despite as-sertions of a lack of interest in such postwar credit operations, it seems a fair bet that ultimately the other big companies may have to resort to some similar method of honeying up to their dealer

outlets.

98 · Marketing

Business Week . June 5, 1943

Big Liquor Suit

OPA jumps on liquidated distillery, alleging over-ceiling sales and asking triple penalty totaling \$7,000,000.

Last January, one of OPA's young lawyers picked up a Louisville newspaper and noticed that the Cummins Disfilleries Corp. (then in process of liquidation) was proudly talking about a very handsome dividend to its stockholders. Estimating the value of Cummins' assets, the attorney calculated that-in his opinion-the dividend was a very liberal one indeed. Then the OPA began to investigate.

Last week, the investigation turned into the biggest law suit in OPA's history-a double-header \$7,000,000 penalty action that is alleging over-the-

ceiling sales.

• The Alleged Overcharge-The price agency claims that in the process of liquidation, Cummins sold its whisky holdings to Calvert, National Distillers, and four big distributors at prices roughly \$2,250,000 over the legal maximum. Some of these sales were direct and some through an organization known as the Stockholders Distribution Committee.

The latter group was formed when Cummins distributed its assets, partly in cash and partly in whisky. Stockholders with large whisky holdings then pooled their supplies and sold out as a unit. So OPA is suing them as well

as Cummins.

• Triple Penalty Asked-In a second action, OPA alleges that price violations also occured during the active life of the corporation and came to around \$60,-000. The two suits, at the triple penalty provided by the price control law, add

up to \$7,000,000.

n

Although detection of the alleged Cummins' violation was something of a freak, there's nothing freakish about OPA's apparent desire to sock the liquor people to the limit of the law. OPA has lately been accusing that industry of breaking price ceilings right and left and evading regulations with all manner of slick tricks. To tighten the screws, the agency is now writing a whole new batch of ceilings that are intended to haul down prices (BW--May 22'43,p83)

• Other Angles Watched-Now the Cummins suit will probably start OPA off in still another direction-investigation of the transfer of whisky stocks from small to big distillers (BW-Apr. 24'43,p32). The price agency is warming up to the notion that many of these transfers were made through a third party to get around ceilings. A probe is

in the offing.

Any competent mason knows how to install INSULUX Glass Block panels. Corrugated mortarbearing edges on INSULUX block bite into the mortor, give the block a firmer grip.

housekeeping easy.



INSULUX Light-Directional Block distribute diffused

daylight evenly throughout interiors, cut power

costs. Note daylight reflected from painted ceil-

ings. INSULUX guards against infiltration, makes



Old buildings modernized today with INSULUX Glass Block are set for a lifetime of efficient operation.

INSULUX panels are permanent replacements for worn-out windows. They afford controlled daylighting-diffused, directed and distributed where it is used to best advantage. Their four-inch hollow glass-block wall construction effects substantial savings in initial and operating costs of air conditioning and heating equipment. INSULUX guards against dust, dirt, and moisture infiltration.

INSULUX Glass Block are available for immediate delivery today-at prewar prices. Installation is simple and fast-requires little or no metal. Maintenance costs are extremely low.

Get in touch with your local INSULUX distributor, or write us today, for construction details showing how INSULUX can replace worn-out sash in your building. INSULUX Products Division, Dept. 90, Owens-Illinois Glass Com-

pany, Toledo, Ohio.

GLASS BLOCK

Business Week • June 5, 1943

Marketing • 99





Daytim

ps as

mplain
Last work anride surdies ment of

nner. ne this vertise

ev mis

oote,

upervisi

rch s

Some

Only

ets turn

he day,

Altho percial percial

nands

of t

erials.

hem.

More

0% of

nore p

POST

Alwa

enter-Los

ure pars and ors A

As 1

o try

espon

vritin geles

pare-

La

nouse Meat

ind f

nake

abbi

lusii

TVA'S "STUDENTS"

Now working with Tennessee Valley Authority, W. H. Wang (above) and seven other young Chinese engineers are being trained to help build post war China's huge waterway projects. Dominating Chungking plans are developments—like TVA—to harness rampaging rivers for power and irrigation. The National Resources Commission of China, meanwhile, is also training many technicians in American industries.

SPUD BATTLE WON

East Texas potato farmers won their battle with OPA for an increase in prices (BW—May22'43,p14), but they may find they have lost the war when it comes to selling the spuds. When OPA clamped a ceiling of \$2.50 per cwt. on potatoes, State Agriculture Commissioner J. E. McDonald arbitrarily raised it to \$3.50.

OPA agents swarmed into the market places ready to proceed against violators of the federal ceiling and succeeded in discouraging the co-op farmers of Hams County from accepting the Texas price. After a few days, OPA yielded, allowing \$3.15 per cwt. (including 25¢ freight) by the wholesale truckload delivered, \$3.30 (including 25¢ freight) for the farmer selling to a retailer; and \$3.75 (including 25¢ freight) for the farmer selling at retail.

Now the wholesaler is squeezed. He is permitted only 60¢ per cwt. (including 25¢ freight), and the profit potential is no lure for him. Furthermore, the farmers have harvested 80% of their 20,000 acres of potatoes, and, even though retailers and wholesalers are lightly stocked with potatoes, the farmers are finding it difficult to move the spuds because of the uncertainty as to whether OPA will continue to stick to

its new ceilings.

BRANCHES

IN ALE

PRINCIPAL

CITIES.

Pioneers and Specialists in

FLOOR-MAINTENANCE EQUIPMENT AND SUPPLIES

100 . Marketing

HUMBS DOWN ON SERIALS

Daytime radio programs, with speng been a pet phobia of such reform oups as the Women's National Radio ommittee. But as long as the soap o much attention to the chorus of

mplaint. Last week, however, the Blue Netork announced findings of a nationde survey which suggested that the dies might be right in their stateent of what women wanted to hear hile they did the ironing or cooked nner. As tactfully as possible, the he this week was suggesting to radio vertisers, actual and potential, that hey might try to fit programs to the cts uncovered in the survey made by oote, Cone & Belding under the pervision of Sam Gill, market rearch specialist.

Some sample findings: Only 28% of occupied homes have ets turned on at any one hour during he day, compared to 40% at night. Although 79% of all network com-

percial daytime programs are devoted o serials, this type of program com-nands only 50% of the actual listen-

Of the housewives who listen to rials, 28% say there are too many of

l'aller) and

neer post-

jects.

e de

rness

rriga

Com

also

meri-

their

e in they

en it

More serious music is requested by 0% of the housewives, and 12% want nore popular music.

POST-EASTER BUNNIES

Always the country's rabbit meat enter-but with a marketing problem

Always the country's raddit meat enter—but with a marketing problem
Los Angeles suddenly finds its miniaLos Angeles suddenly finds its miniaminister and has organized the Rabbit Procesors Assn. of California.

As late as a year ago, leaders in the
ssociation urged eastern meat markets
to try a few shipments of rabbit meat
in their customers. But there was little
esponse.

Now these same eastern dealers are
writing, wiring, telephoning Los Angeles to see if there is rabbit meat to
pare—and there can be little response.
For with war workers, and meat shortges, the whole Los Angeles output is
asily marketed fresh by truck right
round home.

Last year, the Los Angeles packing
louses processed 3,600,000 rabbits.
Meat brought \$1,600,000; pelts, \$864,lought there are record luck charms. This year, pro-

eir

ren are

mhe

to

to

43

nd tails to furriers and hatmakers, feet or good-luck charms. This year, projection will at least double. And that makes little allowance for the many amilies that will probably have built the country of the country abbit hutches in their own back yards o supplement meat supplies (BW-Mar.20'43,p55).



They pioneered on the Santa Fe Trail and America is STILL pioneering.

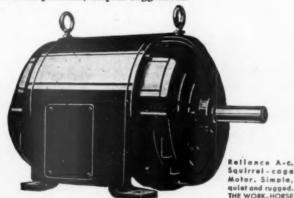
PIONEERS!

Since the days of line shafts, wooden pulleys and dangling belts, Reliance has pioneered in the application of electric motor-drive.

Cooperating with machine designers, Reliance engineers have been able to eliminate transmission gadgets - gears, brakes, clutches, belts, couplings - and have made power control exceedingly simple, easy and effective.

The results: lower-priced, better-performing, more salable machines; and, for machine users, stepped-up production with better quality at lower cost.

All Reliance salesmen are Engineers and Pioneers engineers who know electric motors and motor-drive; pioneers, not afraid to tackle something new. Send for one if you need practical, helpful suggestions.





RELIANCE ELECTRIC & ENGINEERING CO.

1069 Ivanhoe Road

Cleveland, Ohio

ningham * Boston * Buffalo * Chicago * Cincinnati * Detroit * Greenville (S.C.) Los Angeles • New York • Philadelphia • Pittsburgh • Portland (Ore.)
St. Louis • Sam Francisco (Calif.) • Syrocuse (N.Y.) and other principal cities





107 E. Fayette St. Syrocute, N. Y.

FINANCE

Dip into Payrolls

Treasury restyles its war bond drives to fight inflation, excluding commercial banks, in effort to avoid forced saving.

With the latest changes in its borrowing program, the Treasury finally has drawn a clear line between commercial banks and individual subscribers. Hereafter, the banks won't take any part of the huge quarterly bond offerings. The Treasury will coax everything it can from individuals and institutional investors during the regular drives. Then it will call on the banks to put up the balance of what it needs in between-times.

• The Change Is in Timing—Although some details of the change aren't clear yet, it isn't really as important as it sounds. The Treasury got much the same effect in its two previous drives simply by putting a limit on the amount of bonds banks could take. Excluding banks from future campaigns doesn't mean that Secretary Henry Morgenthau thinks he can get all he needs by ringing doorbells. He will make regular visits to the banks.

However, separating banks from other investors has a good many advantages.

Bond dealers have been wondering a the Treasury didn't get around to some time ago. For one thing, sales think the public will be more impressif it has to meet a campaign goal by self instead of counting on the banks take up the slack. More important, the Treasury will find it easier to tailor issues to fit the needs of various types purchasers.

ve the i

n dedu

st a few e goal fo

wages t

nning a

d prom Dampi

soes th

Hation

them

ducing

ther is

tions

at wou

on an

nks, onary.

The

f infla

ne ch

st. Se

he old

nt on

bscrip

hare ta

eased

stors

o their

st hal

ought

n the

ok 56

Ratio

end,

nethod

aged

ned

ec.5'4

12.93

er can

en b

00. al

00 tot

How

he baigher. 25,00

e firs

his 1

fall the Split

reasu

00,00

ubscr

aland

ankin

Mo

he O

• Emphasis on Campaigns—Under onew system, there will be three or his big bond drives a year—tremend campaigns with all the trimmin Purpose of these will be to get a scriptions from individuals and instrutional investors—savings banks, I insurance companies, everything his commercial banks. Volunteer salesm will make the rounds as before.

After the big drive, the Treas will check over the results, decide he much more it needs to meet cure expenditures, and announce an iss designed for the commercial ban This sale won't need any fanfare. The banks are well trained by now and we take what the Treasury hands them.

 Ace in the Hole—If Secretary M genthau should fumble things so bat that subscriptions lagged, a few discritelephone calls from Federal Rese officials would bring out buying ord from the big banks that make the monmarket.

Between drives, the Treasury

WAR BOND SALES HIT NEW HIGH **April Loan Drive Spurred Lagging Total** As Goals for Payroll Deduction Sales Rise SALES Series E, Payroll Savings Plans 2.0 0 7 5 All Other Series E Series F & G 00 1.5 0 1.0 1943 1941 1942

Spurred by the Treasury's high-pressure loan drive, war bond sales jumped to the record total of \$2,555,000,000 in April, but even this is a long way short of the amount needed to make

bond sales an effective weapon again inflation. To boost the total, to Treasury plans a new campaign of greater payroll deductions. Goal is average 15% of incomes. the market a chance to fatten up, at it will keep on hammering at payideductions for Series E war bonds. It a few weeks ago, it decided to boost e goal for payroll deduction from 10% wages to 15%. To put this over, it is main a new campaign of advertising

nd to salesm inpress banks

tant, tailor types

or for

nendo mmin

get so

ing h

Freas

curre n iss ban

e. T and w em.

Reser

mon

mages to 1976. To put this over, it is maing a new campaign of advertising deprendiction.

Damping down Inflation—Of all the sues that Secretary Morgenthau has sell, only the E bonds are really flationary. Purchasers usually pay return out of current income, thus ducing their demands for goods, ther issues that individuals and institutions buy merely mop up savings at wouldn't have gone into consumpton anyhow. Sales to commercial anks. of course, are directly inflations.

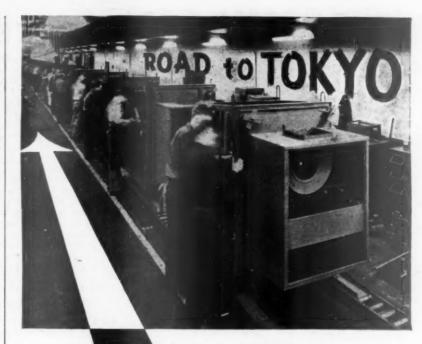
The growing emphasis on heading finflation explains most of the warme changes in Treasury policy. At st, Secretary Morgenthau followed he old custom of laying a bond issue at on the counter and asking for abscriptions. Under this system, the hare taken by commercial banks intestors wanted because few private intestors wanted bonds badly enough to their buying cafeteria style. In the st half of 1941, commercial banks ought 41% of new marketable issues. In the first six months of 1942, they bok 56%.

Ratios Improve—To reverse this rend, Secretary Morgenthau changed acthods in the last half of 1942 and taged the big December loan drive, imed primarily at individuals (BW—bc.5'42,p96). Banks furnished only 5,072,000,000 or about 39% of the 12,937,000,000 raised by the Decemer campaign. In April, the score was the better. Banks took \$5,048,000,00, about 27% of the \$18,533,000,00 total (BW—May15'43,p104).

However, for the period as a whole, he banks' share was a good deal igher. The Treasury sold roughly 25,000,000,000 worth of securities in he first four months of 1943, and banks tok around \$10,000,000,000 of them. his means that they were carrying bout 40% of the new financing in spite fall the Treasury could do.

Splitting the Load—If Secretary forgenthau's plans work out, the reasury will make a better showing coming months Tentative schedles for this year call for borrowing mond \$70,000,000,000. Individuals a supposed to put up the largest lice of this, approximately \$25,300,000,000. Commercial banks are down or \$22,800,000,000. Corporations will subscribe \$13,100,000,000, and the plance will come from other non-anking institutional investors.

Morgenthau is hearing a lot about inflation from hard-pressed officials in the Office of Price Administration who have discovered that no amount of



UNIVERSAL COOLER REFRIGERATING UNITS

"YOUR TOWN" VIA TOKYO

Dewest prod-

Universal Cooler workers call their newest production line "The Road to Tokyo" because the war equipment it produces will help lick the Japs. When this objective is accomplished we can look ahead to peace and new opportunities for all American business.

To Universal Cooler that means the manufacture of refrigerating units to serve YOUR business by providing frozen storage, low-temperature protection for perishables,

usiness by providing frozen storage, lowtemperature protection for perishables, water and beverage cooling, air conditioning or machine tool cooling. From the day of Victory, Universal Cooler refrigerating units will be available to you with important new developments adapted from present production for severest combat duty.

"Lets Ask Universal Cooler"

To get better acquainted there is an attractive, illustrated 24-page booklet outlining Universal Cooler's production facilities, product features and nearly a quarter-century of engineering experience. If refrigeration, air conditioning or machine tool cooling will play any part in your post-Victory activities, you'll find this booklet valuable.

REFRIGERATING UNITS FOR: FROZEN FOOD CABINETS...FOOD STORAGE REFRIGERATORS AND DISPLAY CASES...COMMERCIAL REFRIGERATION EQUIPMENT...AIR CONDITIONING ...ALSO MACHINE TOOL COOLING EQUIPMENT.

UNIVERSAL CASCOOLER

UNIVERSAL COOLER CORPORATION . Automatic Refrigeration since 1922

MARION, OHIO . BRANTFORD, ONTARIO

WHY CRAMP YOUR NEW MACHINES WITH LIMITED CHOICE OF SPEEDS when the GRAHAM gives ALL SPEEDS from TOP to ZERO





1. Not just 5 to 1 range, or 10 to 1, or 100 to 1, but every speed to zero, forward and reverse, without stopping the motor.

2. Full torque guaranteed over the entire speed range.

4. Extreme compactness, all metal, selflubricated, no belts, moderate price.

Machine designers who are modernizing for the post war market should investigate the Graham.

3. Close speed adjust-ment with accurate Write for Bulletin 501

Machine Builders — Order a % HP Graham now to prove its advantages — use it in your laboratory as a utility all-speed test unit. WE CAN DELIVER!

GRAHAM TRANSMISSIONS INC.

2706 N. Teutonia Ave. Milwaukee, Wisconsin

THE MARKETS

With the bull market lusty as ever after 13 months of steady progress, it becomes more and more certain that Wall Street is laving its bets on the basis of two predictions: (1) eventual victory, and (2) at least some measure of inflation. Various other developments have helped boost the averages from time to time, but these two long-term factors have been the driving force behind the advance (BW-Apr.3'43,p15).

• Week's News Bolsters Hopes-Events this week strengthened the Street's confidence in its forecasting. Conclusion of the conferences on high strategy (page 15) backed up investors' convictions that the war-no matter how long it may run nor how costly it may be in men and materials—will end in the unconditional surrender foreshadowed by the agreement at Casablanca.

News from Attu and reports of a great Chinese victory over the armies that menaced Chungking brightened the picture in the Far Eastern theater. And the rising tempo of air war against Europe put new life into hopes for a second front.

• OPA's Moves Watched-The prospect of inflation also moves several steps closer as it becomes apparent that President Roosevelt's hold-the-line order is practically a dead letter already. OPA's change of heart (page 17) means that the wage-price spiral won't be broken on the price side. And while the sudden flurry of strikes is, essentially, bad news for stockholders, it shows that workers don't intend to put up with the Little Steel formula, no matter how much lip service their leaders and government officials may render it (BW-May8'43,

Incidentally, it should be noted that it's not at all certain that inflation would benefit common stocks as a whole. Wa prices more or less frozen and with the excess profits tax putting ceiling income, it would be easy for a corp tion to lose its shirt in a time of mi costs and general monetary turmoil • Pro and Con-However, invest g up don't buy stocks on the basis of the retical economics. To most of W Street, the prospect of inflation is he ish, and knowing that, traders don't co whether or not their reasoning will stan the tests of formal logic. Moreover, making a hedge against inflation, primary consideration is not income safety of the principal.

ice fre

essure deral

ming

out w

Comp

dividu

rchase

ds.

hole sy

that : at the

me sor

its de

en

quire

ake

rinka

With

ying t

mpani

looki

ts to ough

build

torin

g, an

ving

Two (

this

stmen redit nies

ance

erato

ne of

opped

Tow ight

abot

Com

suali

er N

ught

anuf omm ozen

tal va

So 1

redit

actu

Th

Naturally, none of this means the the stock market can't turn around an go back down. After the long r prices are particularly sensitive to h news.

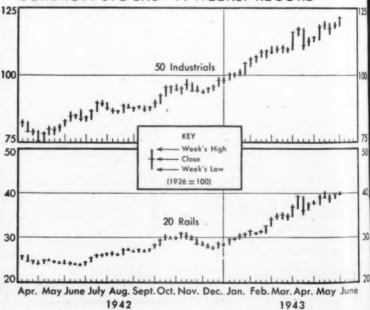
• Careless Speculation?-Some trade may have been carried away by rece military success and may not be pavin enough attention to the amount ground that remains to be covered, Prot ably a lot of them are gambling on infa tion without realizing clearly what it or what its consequences would be

Security Price Averages

occurry trice	my trice revoluges				
This Week	Week Ago	Month Ago	Yez Ago		
Stocks			0		
Industrial121.6	118.5	118.0	821		
Railroad 39.9	39.7	39.2	24		
Utility 47.6	47.0	47.1	30.		
Bonds					
Industrial116.7	116.1	116.1	107.		
Railroad100.2	100.2	99.6	82		
Utility114.2	114.0	113.6	102		
U. S. Govt., 112.4			110.		

Data: Standard & Poor's Corp. except in government bonds which are from Federal Reserve Bank of New York.

COMMON STOCKS - A WEEKLY RECORD



lice freezing will stand up against the desure of inflationary borrowing. The deral Reserve Board also is making aming noises. There isn't any doubt out what the Treasury would like to The big question is how to do it. Compulsory Savings?—Separation of dividual subscriptions from bank archases is about the last piece of tung up that the borrowing machinery eds. If it doesn't work now, the hole system will have to be scrapped. That should happen, it would mean at the Treasury would have to adopt me sort of compulsory savings in spite its devotion to voluntary methods.

le. With the

eiling (

moil.

is bul on't car rill stan

Over, i

l. Prob on infla

enders Fan Out

Instalment loan concerns course manufacturing firms to ake up for business lost by prinkage in automobile paper.

With the instalment loan business ying up steadily, the big sales finance impanies have spent the last year or looking for new ways to put their asts to work (BW-May9'42,p80). Alough most of them have concentrated building up former sidelines such as toring and accounts receivable finances, an increasing number have been ying directly into manufacturing.

Two of Big Three—Leading the trend this direction are Commercial Instment Trust and the Commercial redit Co., two of the three big comnies that dominated instalment ance in prewar days. The third big crator, General Motors Acceptance orp., formerly handled the largest volume of all, but since passenger car sales opped, it has been sitting tight, letting instalment paper run off.

Toward the end of last year, C.I.T. night up two small but busy manufacting companies, both with substantial cklogs of war orders. The Holtzerabot Electric Co., its first purchase, ms out fractional horsepower motors, hile the Micro Switch Corp. manufacting electrical apparatus.

Commercial Credit's Steps—Commercial Credit began fanning out by taking er 95% control of the Pennsylvania sualty Co., an insurance underwriter the avolume of about \$5,000,000 are in net premiums. (C.I.T. had taken to National Surety some years ago.) at July, Commercial Credit also bught out the Kaydon Engineering orp., of Muskegon, Mich., a fair-sized anufacturing business. Altogether, ommercial Credit has invested in a zen or so manufacturing firms with a tal value of around \$9,000,000.

So far, both C.I.T. and Commercial redit have moved cautiously, and manacturing represents only a fractional



GLOBE-WERNICKE WOOD FILING EQUIPMENT FULLY MEETS YOUR FILING PROBLEMS

Globe-Wernicke offers a wide variety of modern wood filing equipment. There are many styles and sizes . . . each designed to fit a particular requirement. They are dependable and efficient wartime products that save steel . . . will last a business lifetime. Let your



ADVERTISERS IN THIS ISSUE

Business Week-June 5, 1943

FRANK ADAM ELECTRIC CO 74	HARTFORD STEAM BOILER INSPECTION
Agency—Major Advertising Agency AIR REDUCTION SALES CO	& INS. CO
Agency—G. M. BASFORD CO. ALLIS-CHALMERS MANUFACTURING	Agency-HOWARD BWINE ADVERTISING AGENCY
CO	HOMASOTE CO
ALUMINUM COMPANY OF AMERICA 9 Agency—Fuller & Smith & Ross Inc.	WM F. HOOPER & SONS CO 90
AMERICAN LUMBER & TREATING CO 83	Agency—MoLain Obganization, Inc. HOTEL MAYFAIR
AMERICAN PHOTOCOPY EQUIPMENT	Agency—GARDNER ADVERTISING CO. HOTELS STATLER CO., INC
Agency—THE PHIL GORDON AGENCY	Agency-Young & Rubicam, Inc.
AMERICAN TELEPHONE & TELEGRAPH	HUNTER ELECTRO-COPYIST, INC 102 Agency—Barlow Advertising Agency, Inc.
Agency—NEWELL-EMMETT Co. 66	IRON FIREMAN MANUFACTURING CO 107 Agency—Joseph B. Gerber Co.
ASSOCIATION OF PREFORMED WIRE ROPE MANUFACTURERS	MANNING, MAXWELL AND MOORE.
Agency - REINCES-ELLIS-YOUNGGREEN & FINN, INC.	INC. 78
ATLAS PRESS CO	THE MARINE MIDLAND TRUST CO. OF NEW YORK
AUTOMATIC ALARMS, INC	Agency PATTEN, BARTON, DURSTINE & OBBORN, INC.
Agency—Wharstlee Advertising, Inc. BANK OF THE MANHATTAN CO	McGRAW-HILL BOOK CO., INC 64, 74
	METROPOLITAN LIFE INSURANCE CO 23 Agency—Young & Rubicam, Inc.
BANKERS TRUST CO	MINNEAPOLIS-HONEYWELL REGULA-
THE BLUE NETWORK	TOR CO
Agency—FOOTH, CONN & BELDING, INC. BOHN ALUMINUM AND BRASS CO 39	MONSANTO CHEMICAL CO4th Cover
BREEZE CORPORATIONS, INC	MONTGOMERY ELEVATOR CO 46
Agency-ADAMS, BURKE DOWLING, INC.	NATIONAL PUBLISHERS ASSOCIATION.
Agency—TRACT, KENT & Co., INC 82	
Agency—TRACT, KENT & Co., INC. THE CARPENTER STEEL CO	NORTHROP AIRCRAFT, INC
Agency—CHAS. DALLAS BEACH CO.	
CELANESE CELLULOID CORP	
Agency—THE ATTRIN-EYNETT CO. THE CELOTEX CO	
	PERSONNA BLADE CO
CENTURY ELECTRIC CO	Agency-Amos Parried & Co., INO.
CLAYTON MFG. CO	Agency-CHARLES MRISSNER & ASSOC., INC.
THE CLEVELAND ROCK DRILL CO 73 Agency—The Bayless-Kerr Co.	
COMMERCIAL CREDIT CO	PRUDENTIAL INSURANCE CO. OF
DAVIDSON MFG. CORP	AMERICA 98 Agency—Choil & Parabrey, Inc.
Agency—O'Dea, SHELDON & CANADAY, INC. DAVIDSON MFG. CORP	RELIANCE ELECTRIC & ENGINEERING CO
Agency-Inving J. ROSENBLOOM ADVERTISING	Agency-Meldeum and Pewsmith, Inc. REMINGTON RAND INC
DENISON ENGINEERING CO 31	Agency-LEEFORD ADVERTISING AGENCY, INC.
Agency-WHEELER-KIGHT & GAINET, INC. DICTAPHONE CORP	ACCOUNT BUCKLY & CO
Agency-MoCann-Erickson, Inc.	RUSTLESS IRON & STEEL CO
Agency-KNOX REEVES ADVERTISING, INC.	Agency—Van Hant, Dugdale & Co., Inc. JOSEPH T. RYERSON & SON, INC 21 Agency—Aubrey, Moore & Wallace, Inc.
DOUGLAS FIR PLYWOOD ASSOCIATION 80 Agency—McCann-Enickson, Inc.	SALSBURY CORP
Agency-MacManus, John & Adams, Inc.	SCOTT PAPER CO.
DRESSER INDUSTRIES 47	
E. I. du PONT de NEMOURS & CO 29	Agency—THE CAPLES CO.
OSBOR INC.	
EASTMAN KODAK CO	
ELECTRIC WHEEL CO 90	SKINNER ENGINE CO
ELECTRO-MOTIVE DIV. OF GENERAL	SPRIESCH TOOL & MANUFACTURING
MOTORS CORP	CO., INC
Agency—ALLET & RICHARDS CO 4	STANDARD PRESSED STEEL CO 98 Agency—B. E. LOVERIN CORP.
ERIE RESISTOR CORP	THE STUDEBAKER CORP
FIDELITY MACHINE CO	INU.
Agency—THE ROLAND G. E. ULLMAN ORGANISATION	SYLVANIA ELECTRIC PRODUCTS, INC 56 Agency—ARTHUR KUDNER, INC.
FINNELL SYSTEMS, INC	TIMKEN-DETROIT AXLE CO 33
FRUEHAUF TRAILER CO	Two BROOKS, SEITH, FRENCH & DOLLANCE,
Agency-Schipper Associates	Agency-Maldren & Frwamith, Inc.
GEARE-MARSTON, INC.	CORP
GENERAL ELECTRIC CO	CORP
OSBOEN, INC.	Agency-N. W. ATER & SON, INC.
GENERAL ELECTRIC CO	J. S. FIDELITY & GUARANTY CO 59 Agency—Van Sant, Dugdalm & Co., Inc.
THE GLOBE-WERNICKE CO	
GOODYEAR TIRE & RUBBER CO.,	Agency—Batten, Barton, Dunsting & Osborn Inc. UNIVERSAL COOLER CORP
Agency-ARTHUR KUDNER, INC.	Agency-HOWARD HWINE ADVERTISING AGENCY
GRAHAM TRANSMISSIONS, INC10 Agency—Beet S. Gittems, Adv.	WAVERLY PETROLEUM PRODUCTS CO 77
GRINNELL CO., INC 4	9 WESTINGHOUSE ELECTRIC & MFG. CO. 53
Agency-Horton-Notes Co.	Agency—Fullus & Smith & Boss Inc.

percent of their business. Their big is come producers these days are factoring and accounts receivable financing. Doing 1942, factoring—the purchase of manufacturers' and wholesalers' claims against dealers—accounted for 70% of Commercial Credit's receivables business. The year before it was only 30%.

• Auto Business Slumps—Shrinkage in instalment financing of automobiles and other durable consumers goods more than offset this growth. In 1942, motor than offset this growth. In 1942, motor tien retail sales accounted for a scart 10% of the paper purchased by Commercial Credit, and automobile wholesale notes and advances were less than 13%. In 1941, the two classes together made up about 62%.

C.I.T. has much the same story to

ack N

ntly rec

by a

There arters h

n. It is

presen

es so

same

sumer

in nort

cour

that

ficient

ke it

get i

se t

ick m

ere it

I sho

strong e Sta

sche

C.I.T. has much the same story to tell. Last year, 73% of its business wat in factoring, which compares with 27% the year before. Retail automobile sale financing was only 7% of its total and wholesale 9%, against 27% and 37% in 1941.

• Ventures of Others—The two big companies aren't the only ones that are spreading out in an attempt to fill the gap left by the evaporation of instalment finance. Associates Investment Co., one of the largest "independent," has purchased two war plants through its subsidiary, National Industries, Inc. General Finance Corp., another good-sized company, has arranged a diversified investment program that include metal fabricating, food processing, and prefabricated housing. Domestic Finance Corp. has bought up three tod companies, plans to take over another.

Although the finance companies moved into manufacturing from necessity, most of them say they like at there and intend to stay. For one thing, their broad tax exemptions give them better protection than the original manufacturing companies had, which means that their investments are more profit able than past income records make them appear.

LOAN SNARL UNTANGLED

One curt decision from the Appellate Division of the New York courts this week straightened out the legal tangle that has been badgering personal loan companies. In a one-sentence ruling, the appeals judges reversed the decision of the lower court which had held that notes and chattel mortgages given the Household Finance Corp. by three borowers were void because their wording failed to comply with technical requirements of the state law (BW-Mar.13'43, p109).

According to the appellate decision, it is enough for the loan company to state that if the borrower defaults on a payment, the whole amount may fall distinguished immediately. It doesn't have to specify all the circumstances under which may turity may be accelerated.

HE TRADING POST

ack Markets

big in actoring Durchase of

claim 70% o

s bug y 30%, kage in iles and

Mole

motor

scant Com-

whole.

ss than

gether

tory to

ess was 1 27%

le sales

al and

g comat are

instal.

tment lents,"

rough

, Inc.

good-iversi-

cludes

c Fi

e tool

ner.

panies

neces ke it

hing,

them

man-

neans

orofit-

make

D

ellate

this

angle loan

, the

n of

that

the

bording

n, it

state

pay-due

ecify

Paragraphs lifted from a letter reatty received from London and writby a man who is in position to re-et British business views:

There is much agitation in certain there is much agreation in certain arters here over the possibility that the ited States will get uncontrolled inflan. It is, of course, obvious that, during t, the factors making for inflation will present. Everyone is employed at good gs so that the spendable money in-ne of the nation is greatly increased. At same time productivity is deliberately itched to making weapons of war so that numer goods are in far shorter supply

n normally.
Under such conditions the only possity of avoiding inflation is strict rationthe coupled with price-fixing. In the long that will work only if the people are ficiently disciplined and unselfish to ke it work. If, instead of being content h their ration, people with money try get more than their fair share, then k markets will develop. Unless public mion condemns such people as traitors d the public generally will immediately ose them and have them punished, then ck marketing will develop to a point ere it breaks the rationing and price-fixschemes.

I should be interested to know whether strong enough public opinion exists in e States to ensure that black marketing Il not be tolerated by the people themnot be tolerated by the people themes. If the people tolerate it, then no wernment can stop it.

In answer to this question, one Amern observer reports and suggests:

As yet there is no general sentiment ainst the black market in this country. st as prohibition was ineffective when ere was a substantial portion of the public posed, so black markets will multiply less the meaning of this menace is ught home to each individual housefe. Canadian women regard the mainnance of stable prices as their contribu-n to the war, and it is their voluntary ports to the War Time Prices and Trade ard which are a most effective source information with respect to violations.

Bankers are capable of understanding e dangers of a further rise in prices. broughout the country the local banker

nys a far larger part in the life of his lage, town or city than seems generally iderstood in Washington. This is the st group which should be asked to marshal

influence in the price war.

The women of the country have been king for an opportunity to give vital help the war. Again and again they have en put off by officials who did not quite low what to do with them. If the bankers each community ask the women's clubs the country to render a war service by obilizing total public opinion against gher wages and prices, the task will be adertaken enthusiastically.

Big Ideas From Small Plants

A letter from C. A. Woodhouse, president, Michigan Bumper Corp., Grand Rapids:

Much space has been devoted recently to the subject of "armor speeded," with principal credit for the development of fixture quenching and straightening going to one of our great automobile producers. The most recent article appears in Business Week, May 8, '43, p. 48.

On behalf of the little fellow, we would like very much to show you a quenching and straightening fixture for processing armor plate like the one described in your article. This fixture weighs approximately twentythree tons, was designed by our engineers, built according to our specifications by the Superior Tool and Die Co. in Detroit, and delivered to our plant on Oct. 1, 1942

The idea for fixture quenching originated early in the year 1942, in what later developed as the "armor plate program." The necessity for such a fixture in our particular case was due to the fact that we did not have room in our plant to set up a battery of straightening presses even if they were

available.

We had been invited to join a group of so-called "partner contractors," made up of small manufacturers quickly gathered to-gether to do the job of fabricating armor plate for tanks. As early as April, 1942, plates which had been fixture-quenched in our plant in sizes 36" x 42" were submitted to Aberdeen, and passed ballistic tests.

We originally planned a production of 1,100 tons of armor plate per month in an area of less than 40,000 square feet. The government, through Ordnance, was to lease to us a 65-foot high-heat furnace, and a quenching and straightening fixture built to our specifications. This equipment, together with our own hydraulic presses, would enable us to fabricate the required tonnage.

We are sure you will find the fixturequenching method now quite universally used in the industry, although some of the plants which originally advocated the pro-cedure are no longer favored with armor

plate business.

We are not familiar with the date fixturequenching and straightening armor plate was started by other armor plate fabricators, but we do know that in our own plant we produced sample plates by this method many months before articles showing its superiority over the former procedure began to appear in public print.

The efforts of small manufacturers to

produce the war requirements of the government, particularly in the early stages of the conflict, have contributed materially toward speeding up production by offer-ing ideas and lending engineering brains

to the program.

We are sure that Business Week has many subscribers who share our opinion that many of the really big improvements originated in the fertile brains of the smaller, one or two-man engineering staffs.

W.C.

COAL is
Helping Win on
the Home Front



Fire Coal Automatically with an IRON FIREMAN STOKER

COAL, America's permanent fuel supply, is the "home front" source of heat

and power.

Today in war production plants, buildings and institutions throughout the country, Iron Fireman stokers are firing millions of tons of coal automatically and economically. Steam output is being increased 10% to 35%...large savings are made in fuel costs. And already hundreds of millions of gallons of vital fuel oil are being saved for our armed forces by the use of Iron Fireman commercial and industrial stokers.

Iron Fireman stokers are now available. Find out how quickly Iron Fireman equipment can be installed, and what it will do in your plant. Write, wire, or telephone Iron Fireman Manufacturing Co., 3418 W. 106th St., Cleveland, Ohio, Plants at Portland, Oregon; Cleveland, Ohio; Toronto, Canada.



wo Iron Fireman Poweram stokers at Bearings Company of America at Lancaster, Pa., effect a saving of 28.7% over hand-firing. More heat is delivered to the plant, more uniform temperature a maintained throughout the building.



DEBT AND TAXES-KEY POSTWAR PROBLEMS

In laying out their blueprints for the world to come, postwar planners are inclined to brush aside two trouble-some questions of fiscal policy. One concerns the national debt and the annual service charges on it. The other deals with the amount of revenue the government will need in postwar years.

• It's easy to overlook these financial problems, because, since the start of the war, most economic thinking has been in "real" terms—in tons of steel, square feet of factory floor space, man-hours of employment. Direct controls, such as rationing, wage freezing, and scheduling of production, have overshadowed the indirect pressures the government exerts in the course of raising money and spending it.

This approach may be all right as long as we are dealing with the wartime economy, but planners, both amateur and professional, are due for a shock if they leave government finance out of their postwar calculations. Direct controls are the big thing today, but it doesn't follow that, in abolishing them, federal authorities will surrender their power over income, production, and consumption. Instead, the size of the national debt and the estimated need for revenue make it clear that, after the war, government fiscal policy will be one of the dominating factors in the country's economic and social life.

The effects of government taxing and spending always tend to shift the balance in an economy. Inevitably they take income from one group and give it to another. As long as the government operates on a comparatively small scale, this shift passes unnoticed, but its importance grows with every increase in the state's share of national income. Fiscal policy is neutral only when it is negligible.

At this stage of the game, it is impossible to tell much about the government's revenue requirements or the size of its debt after the war. One thing is certain, however. They won't be negligible.

• At present, the national debt stands around \$130,000,000,000,000, and we are adding to it at the rate of \$70,000,000,000,000 a year. This means we probably will hit the \$200,000,000,000 mark early next summer, and that we will get up to something like \$300,000,000,000 by the end of 1945. Assuming that the war ends in 1945, and allowing an extra \$50,000,000,000 for tapering off, we are likely to come out of it with a total debt somewhere between \$300,000,000,000 and \$350,000,000,000.

As soon as we start shifting to a peacetime basis, the government will have to decide what it intends to do about retirement, refunding, and annual interest charges. If it wants to pay off part of the debt, it will have to levy taxes to raise the money. To make any sort of dent in the total, it would have to transfer at least \$3,000,000,000 a year from taxpayers to bondholders. This would mean a broad-scale redistribution of income and wealth. Whether

it was planned or capricious would depend on how well the government realized what it was doing.

Even more important than repayment is the problem of handling the annual interest charges. The government won't have to undertake a program of debt retirement unless it wants to, and there are several telling argument that probably will discourage it. For one thing, heavy debt retirement is deflationary, and in the critical year after the war, violent deflation will be the last thing any government wants. Moreover, a convenient thing about national debts is that they become easier and easier to carry as the economy expands. In a growing country, if you can just sit tight long enough, national income eventually rises to the point where the debt is comparatively light. This was what happened to our Civil War debt.

• However, neither of these arguments will make the interest problem any simpler in the years immediately after the war. On a debt of \$350,000,000,000, interest would run to about \$7,000,000,000 annually, or about the size of our total government budget before the war. Collecting this in taxes and paying it out to bondholder will raise the same problems that come up in connection with debt retirement.

Interest charges are only one item in the government budget, and many of the others have climbed to permanently higher levels. Ordinary expenses of the government departments will run at least \$6,000,000,000 after the war. What we will pay for our military establishment is pure guesswork, but a minimum of \$5,000,000,000 a year looks probable. With interest charge, this gives a total of \$18,000,000,000 without any allowance for postwar rehabilitation, expanded social security, or a public works program. Hence, the odds are that federal budgets will run from \$20,000,000,000 to \$25,000,000,000 over-all.

All this means that federal authorities will have direct control of something like 25% of the national income. Consciously or unconsciously, they will swing the balance in the distribution of incomes among the various economic classes, and through incomes, they will influence the whole pattern of production and consumption.

• Regardless of the current talk about swinging pendulums and inevitable political reactions, the government won't be able to evade the responsibility and power that go with control of one quarter of the nation's annual in come. Any postwar administration, whether it is conservative, radical, or on-the-fence, will have to face problems it might otherwise have found convenient to ignore—problems of income distribution, of tax reform, of adjusting the balance between consumption and investment. And the decisions it makes will be among the principal forces that shape the postwar world.

The Editors of Business Week

WEEK

YEAL

S' OF

blem ment ment ments heavy years gg any about er to if you entutively debt. e the war. olders oction

ment gov-0,000 estab-,000,arges, allowurity, that \$25,-

direct come.

bal
bal
rious

influ
btion.

endu
ment

that

al in
con
prob
gnore

a, of

avest
prin
Veek

JS

/E

JSIN /EEK IDEX